

Technical Memorandum: Delta Risk Management Strategy (DRMS) Phase 1

Topical Area: Impact to Infrastructure Draft 2

Prepared by: URS Corporation/Jack R. Benjamin & Associates, Inc.

Prepared for:
California Department of Water Resources (DWR)

June 15, 2007



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Mr. Ralph R. Svetich, P.E.
Delta Risk Management Strategy Project Manager
Department of Water Resources
Division of Flood Management
Delta-Suisun Marsh Office
901 P Street, Suite 313A
Post Office Box 942836
Sacramento, CA 94236-0001

Subject: Delta Risk Management Strategy

Phase 1 Draft 2 Technical Memorandum – Impact to Infrastructure

Dear Mr. Svetich,

Please find herewith a copy of the subject technical memorandum. Members of the Steering Committee's Technical Advisory Committee and agency staff have reviewed the draft technical memorandum, and this second draft addresses their comments.

This technical memorandum was prepared by Mr. Mike Forrest, Senior Project Manager (URS), and Ms. Danielle Lowenthal-Savy, Risk Analyst/Scientist (URS). Technical input was also provided by Dr. Ram Kulkarni, Principal Engineer (URS). GIS input was provided by Ms. Amy Keeley (URS). This technical memorandum was reviewed by Dr. Said Salah-Mars, DRMS Project Manager (URS), and Dr. Scott Shewbridge (URS). Internal peer review was provided in accordance with URS' quality assurance program, as outlined in the (DRMS) project management plan.

Sincerely,

URS Corporation

Jack R. Benjamin & Associates, Inc.

Said Salah-Mars, Ph.D., P.E. URS Engineering Division Manager DRMS Project Manager 1333 Broadway Ave, Suite 800 Oakland, CA 94612 Ph. 510-874-3051

Fax: 510-874-3268

Martin W. McCann, Jr., Ph.D. President JBA DRMS Technical Manager 530 Oak Grove Ave., Suite 202 Menlo Park, CA 94025 Ph. 650-473-9955

Preamble

The Delta Risk Management Strategy (DRMS) project was authorized by DWR to perform a risk analysis of the Delta and Suisun Marsh (Phase 1) and to develop a set of improvement strategies to manage those risks (Phase 2) in response to Assembly Bill 1200 (Laird, Chaptered, September 2005). The Technical Memorandum (TM), is one of 12 TMs (2 topics are presented in one TM: hydrodynamics and water management) prepared for topical areas for Phase 1 of the DRMS project. The topical areas covered in the Phase 1 Risk Analysis include:

- 1. Geomorphology of the Delta and Suisun Marsh
- 2. Subsidence of the Delta and Suisun Marsh
- 3. Seismic Hazards of the Delta and Suisun Marsh
- 4. Global Warming Effects in the Delta and Suisun Marsh
- 5. Flood Hazard of the Delta and Suisun Marsh
- 6. Wind Wave Action of the Delta and Suisun Marsh
- 7. Levee Vulnerability of the Delta and Suisun Marsh
- 8. Emergency Response and Repair of the Delta and Suisun Marsh Levees
- 9. Hydrodynamics of the Delta and Suisun Marsh
- 10. Water Management and Operation of the Delta and Suisun Marsh
- 11. Ecological Impacts of the Delta and Suisun Marsh
- 12. Impact to Infrastructure of the Delta and Suisun Marsh
- 13. Economic Impacts of the Delta and Suisun Marsh

Note that the Hydrodynamics and Water Quality topical area was combined with the Water Management and Operations topical area because they needed to be considered together in developing the model of levee breach water impacts for the risk analysis. The resulting team is the Water Analysis Module (WAM) Team and this TM is the Water Analysis Module TM.

The work product described in these TMs will be used to develop the integrated risk analysis of the Delta and Suisun Marsh. The results of the integrated risk analysis will be presented in a technical report referred to as:

14. Risk Analysis – Report

The first draft of this report was made available to the DRMS Steering Committee in April 2007.

Assembly Bill 1200 amends Section 139.2 of the Water Code, to read, "The department shall evaluate the potential impacts on water supplies derived from the Sacramento-San Joaquin Delta based on 50-, 100-, and 200-year projections for each of the following possible impacts on the delta:

- 1. Subsidence.
- 2. Earthquakes.
- 3. Floods.
- 4. Changes in precipitation, temperature, and ocean levels.
- 5. A combination of the impacts specified in paragraphs (1) to (4) inclusive."

In addition, Section 139.4 was amended to read: (a) The Department and the Department of Fish and Game shall determine the principal options for the delta. (b) The Department shall evaluate and comparatively rate each option determined in subdivision (a) for its ability to do the following:

- 1. Prevent the disruption of water supplies derived from the Sacramento-San Joaquin Delta.
- 2. Improve the quality of drinking water supplies derived from the delta.
- 3. Reduce the amount of salts contained in delta water and delivered to, and often retained in, our agricultural areas.
- 4. Maintain Delta water quality for Delta users.
- 5. Assist in preserving Delta lands.
- 6. Protect water rights of the "area of origin" and protect the environments of the Sacramento- San Joaquin river systems.
- 7. Protect highways, utility facilities, and other infrastructure located within the delta.
- 8. Preserve, protect, and improve Delta levees...."

In meeting the requirements of AB 1200, the DRMS project is divided into two parts. Phase 1 involves the development and implementation of a risk analysis to evaluate the impacts to the Delta of various stressing events. In Phase 2 of the project, risk reduction and risk management strategies for long-term management of the Delta will be developed.

Definitions and Assumptions

During the Phase 1 study, the DRMS project team developed various predictive models of future stressing events and their consequences. These events and their consequences have been estimated using engineering and scientific tools readily available or based on a broad and current consensus among practitioners. Such events include the likely occurrence of future earthquakes of varying magnitude in the region, future rates of subsidence given continued farming practices, the likely magnitude and frequency of storm events, the potential effects of global warming (sea level rise, climate change, and temperature change) and their effects on the environment. Using the current state of knowledge, estimates of the likelihood of these events occurring can be made for the 50-, 100-, and 200-year projections with some confidence.

While estimating the likelihood of stressing events can generally be done using current technologies, estimating the consequences of these stressing events at future times is somewhat more difficult. Obviously, over the next 50, 100, and 200 years, the Delta will undergo changes that will affect what impact the stressing events will have. To assess those consequences, some assumptions about the future "look" of the Delta must be established.

To address the challenge of predicting impacts under changing conditions, DRMS adopted the approach of evaluating impacts absent changes in the Delta as a baseline.

This approach is referred to as the "business-as-usual" (BAU) scenario. Defining a business-as-usual Delta is required, since one of the objectives of this work is to estimate whether 'business-as-usual' is sustainable for the foreseeable future. Obviously changes from this baseline condition can occur; however, as a basis of comparison for risks and risk reduction measures, the BAU scenario serves as a consistent standard rather than as a "prediction of the future" and relies on existing agreements, policies, and practices to the extent possible.

In some cases, there are instances where procedures and policies may not exist to define standard emergency response procedure during a major (unprecedented) stressing event in the Delta or restoration guidelines after such a major event. In these cases, prioritization of action will be based on: (1) existing and expected future response resources, and (2) highest value recovery/restoration given available resources.

This study relies solely on available data. Because of the limited time to complete this work, no investigation or research were to be conducted to supplement the state of knowledge.

Perspective

The analysis results presented in this technical memorandum do not represent the full estimate of risk for the topic presented herein. The subject and results are expressed whenever possible in probabilistic terms to characterize the uncertainties and the random nature of the parameters that control the subject under consideration. The results are the expression of either the probable outcome of the hazards (earthquake, floods, climate change, subsidence, wind waves, and sunny day failures) or the conditional probability of the subject outcome (levee failures, emergency response, water management, hydrodynamic response of the Delta and Suisun Marsh, ecosystem response, and economic impacts) given the stressing events.

A full characterization of risk is presented in the Risk Analysis Report. In that report, the integration of the probable initiating events, the conditional probable response of the Delta levee system, and the expected probable consequences are integrated in the risk analysis module to develop a complete assessment of risk to the Delta and Suisun Marsh.

Consequently, the subject areas of the technical memoranda should be viewed as pieces contributing to the total risk, and their outcomes represent the input to the risk analysis module.

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List of Acronyms and Abbreviations

BNSF Burlington Northern Santa Fe (Railroad)
CalTrans California Department of Transportation

CCWD Contra Costa Water District

CDFG California Department of Fish & Game

CEC California Energy Commission
CRCV Coast Range Central Valley
DRMS Delta Risk Management Strategy

DWR California Department of Water Resources

EBMUD East Bay Municipal Utility District EPA Environmental Protection Agency

FEMA Federal Emergency Management Agency

FIA Federal Insurance Administration

FIRM Flood Insurance Rate Map
GIS Geographic Information System

HAZUS HAZUS-MH MR2, second maintenance release of the HAZUS MH

(HAZUS Multi-hazard) software program, from FEMA

MHHW Mean Higher High Water

NOAA National Oceanic and Atmospheric Administration

PG&E Pacific Gas & Electric Company

PNAS Proceedings of the National Academy of Sciences

SMUD Sacramento Municipal Utility District

TM Technical Memorandum UPRR Union Pacific Railroad

USACE U.S. Army Corps of Engineers USBR U.S. Bureau of Reclamation

1. Introduction

1.1 Background

A large amount of infrastructure is located within the Delta and Suisun Marsh. Some of the infrastructure that crosses the Delta to other parts of California provides vital resources such as water, gas, power, communications, shipping, and railroad freight transportation. Levee failure would cause direct physical damage to residential, commercial, recreational, and public assets. Rupture of petroleum pipelines and resulting spills would cause further environmental losses. Disruption of these in-Delta resources due to levee failure has the potential to cause extreme economic losses to the State and nation as a whole.

1.2 Purpose and Scope

This technical memorandum (TM) is one of 13 technical memoranda on various topical areas that are addressed in the Delta Risk Management Strategy (DRMS) Project. The purpose of this TM is to address the damage to Delta infrastructure assets due to levee failure, the cost of repairs to restore the damaged infrastructure, and the estimated time required to make the repairs.

In this TM, we consider damage to infrastructure assets that could result from levee breaching and island flooding, due to an initiating event (seismic or flooding/overtopping). Infrastructure assets that are damaged or fail as a result of an earthquake alone, without levee breaching and subsequent flooding, are not evaluated. Infrastructure assets that are damaged or fail as a result of flooding caused by levee breaching from an earthquake are within the DRMS study scope.

This TM describes the methodology that was used to estimate damage to Delta infrastructure and presents the resulting costs and schedule durations needed to repair the damage that could occur as a result of inundation from levee breaches due to the hazards that are considered in the DRMS study (i.e., seismic and flood), and potential secondary hazards that may occur due to levee breaches (e.g., petroleum spills). Agricultural losses economic losses due to outages of infrastructure are estimated in the Economic Consequences TM.

The analysis results presented in the technical memorandum do not represent the full estimate of risk of the topic presented herein. The topical subject and results presented are expressed whenever possible in probabilistic terms to characterize the uncertainties and the random nature of the parameters that control the subject under consideration. The results are the expression of either the probable outcome of the hazards (earthquake, floods, climate change, subsidence, wind waves, sunny day failures) or the conditional probability of the subject outcome (levee failures, emergency response, water management, hydrodynamic response of the Delta and Suisun Marsh, ecosystem response, and economic impacts) given the stressing events.

A full characterization of risk is presented in the Risk Analysis Report. In that report, the integration of the probable initiating events, the conditional probable response of the

Delta levee system, and the expected probable consequences are integrated in the risk analysis module to develop a complete assessment of risk to the Delta and Suisun Marsh.

Consequently, the subject areas of the Technical Memoranda should be viewed as pieces contributing to the total risk, and their outcomes represent the input to the risk analysis module.

1.3 Overview of Approach

The general approach to the work covered under this TM includes several activities and generally follows the approach outlined in the Initial Technical Framework Paper (URS/JBA, 2006). Figure 1-1 illustrates a flow diagram of the approach to estimate potential damage to Delta infrastructure assets due to various stressing events. This figure shows that the work approach is divided into the following three main parts:

- Data Compilation/Asset Definition:
 - Gather Geographic Information System (GIS) data (quantity and type of assets) for each island including asset attributes.
 - Obtain unit cost data and repair times for the infrastructure assets.
 - Define analysis zones.
- Analysis/Evaluation:
 - Assess potential damage to infrastructure due to stressing events.
 - Assess uncertainty in infrastructure repair cost estimates.
- Summary of Results/Tech Memo:
 - Summarize analysis results due to the stressing events.
 - Prepare this technical memorandum on damage assessment potential on Delta infrastructure.

1.4 Organization of Technical Memorandum

After this introductory section, this TM is organized into the following sections:

- Section 2: Presents a description of the infrastructure that includes, linear and point assets in the Delta.
- Section 3: Describes the data sources used to define the Delta infrastructure.
- Section 4: Discusses the methodology and approach that includes the stressing event scenarios (inundation, scour and earthquake), response of infrastructure assets to the stressing events, cost estimation, repair schedule requirements, and assumptions used in the infrastructure damage estimation.
- Section 5: Presents the approach to estimate impacts to Delta infrastructure in 2050.
- Section 6: Discusses the analysis of uncertainty in the repair cost estimates.

- Section 7: Presents the results of the study that include tables for the estimated cost of repairs to restore the damaged infrastructure, and the estimated time required to make the repairs.
- Section 8: Lists the references that were used to prepare this technical memorandum.

The following supporting appendices are also included:

- Appendix A: Contains the invitation to the October 2, 2006 meeting with major Delta asset owners and a questionnaire.
- Appendix B: Contains data provided by asset owners, completed questionnaires, and meeting notes.
- Appendix C: Describes the information contained in the asset damage tables; i.e., for
 each island, information is presented as a percentage of damage incurred by the
 various assets, replacement costs of the assets, estimated repair costs resulting from
 inundation, and the time estimated for repairs.

2. Description of Delta Infrastructure

2.1 Definition of Delta

The "Delta" includes the following geographic areas:

- Suisun Marsh east of the Benicia-Martinez Bridge on Interstate 680; and
- Legally defined Sacramento-San Joaquin Delta as defined in Section 12220 of the Water Code.

For discussion purposes in this TM, the term "Delta" will be used to describe both the Suisun Marsh and the legally defined Sacramento-San Joaquin Delta. The Delta islands and sloughs and the Suisun Marsh management areas are shown on Figure 2-1.

2.2 Delta Infrastructure

In this TM, the term "infrastructure" is used to designate all structures and buildings, and their contents. The Delta infrastructure can be divided into linear and point assets. Linear infrastructure includes railroads, highways, shipping channels, transmission lines, aqueducts, and gas and petroleum pipelines. Point infrastructure includes bridges, marinas, natural gas fields/storage areas, natural gas wells, commercial and industrial buildings, residences, and pump stations.

Although the Delta levees themselves are assets, they are not considered to be "infrastructure assets" that are the subject of this TM. The costs associated with the repair of levees are considered in the Emergency Response and Repair TM. Furthermore, land value and associated damage to land that may result from levee breaching are not within the scope of this TM.

The descriptions of the Delta assets that follow are summarized from information collected in 2004-2005 for the In-Delta Storage Project (URS, 2005), from information collected from asset owners (Appendix B), HAZUS-MH MR2 (FEMA, 2006), and from information gathered under another DWR project (PBS&J, 2006). Section 3 describes the



data sources that were used to develop the inventory of Delta infrastructure assets considered in this analysis.

2.2.1 Linear Assets

PG&E Natural Gas Pipelines (Figure 2-2)

The main PG&E pipelines that were considered for infrastructure damage estimates are (see Appendix B):

- Backbone Line (L400/401): west side of Delta running north-south, 26 to 42-inch outside diameter (OD)
- Line 196: traverses east to west through the middle of the Delta, 12 to 16-inch OD; mostly 16-inch OD
- Line 108: east side of Delta running north-south, 16 to 24-inch; mostly 24-inch OD
- StanPac (Standard Oil, now Chevron, and PG&E) Line: west side of Delta, 10 to 16-inch OD
- Line 57A (18-inch OD) and Line 57B (22-inch OD) from the McDonald Island Gas Storage Field (see Section 2.2.2). Line 57C (24-inch OD), which will be 4.7 miles long, is under construction and will be on line in 2007 (PG&E, undated). This new line will provide redundancy for gas delivery from the gas storage field.

PG&E has used several methods for installing gas pipelines at water crossings and include the following (Appendix B):

- Exposed "overhead crossings": generally used at shorter ditch crossings.
- Hung-on-bridge crossings: very limited use due to required permissions involved and limited availability.
- Trenching: widely used for short to river-wide lengths in which a pipe was originally installed approximately 5 feet deep following the contours of the levee and streambed with a concrete water-break-wall on the top of the levee.
- Horizontal Directional Drilling (HDD): Initiated in the mid-1970s and widely adopted in the mid-1980s for water crossings. HDD construction will be extensively used for the installation of Line 57C for the McDonald Storage Field.

PG&E Transmission Lines (Figure 2-3)

The transmission lines for 500 kV, 230 kV, and 115 kV voltage levels within the Legal Delta and Suisun Marsh areas are constructed on tower structures (some 115 kV lines are on wood poles). Most of the towers have augered footings with a minimum diameter of 2 feet and at various depths. Only about 10 percent of the towers are on pile foundations (see Appendix B).

- The 500 kV transmission lines are constructed on single-circuit tower structures. The depths of the footings range from 9 feet to 15 feet.
- The majority of the 230 kV transmission lines are constructed on double-circuit tower structures. The depths of the footings range from 9 feet to 20 feet.



- The majority of the 115 kV transmission lines are constructed on double-circuit tower structures. The depths of the footings range from 7.5 feet to 12.5 feet. Some of the 115 kV lines are constructed on wood poles. Based on the wood pole standards, the typical depths of the pole settings range from 5 feet to 10 feet.
- Almost all the 60 kV transmission lines are constructed on wood poles. The classes and settings of wood poles are designed to meet or exceed the minimum requirements of General Order 95 (see Appendix B). The pole setting depths of wood poles varies from 5 feet to 10 feet depending on the height of the wood poles. Some of the 60 kV transmission lines are constructed on tubular steel poles. The typical foundation size for tubular steel poles at this voltage level is about 4.5 feet in diameter and 17 feet deep.

Based on information in the Levee Fragility TM, major transmission lines are outside the areas of significant peat and organic marsh deposits, except for the transmission lines across Sherman Island.

Highways and Roads (Figure 2-4)

PBS&J (see Section 3.1) has categorized roads as minor roads and major roads, and HAZUS provided data on highways. The following main roads/highways traverse the Delta:

- Interstate 80 runs east-west through the north end of the Delta, west of Sacramento
- Interstate 5 runs north-south on the east side of the Delta
- Interstate 680 runs north-south on the west side of Suisun Marsh
- Interstate 205 runs east-west on the south side of the Delta
- State Highway 160 runs north-south along the Sacramento River from Freeport to Oakley
- State Highway 12 traverses east-west through the middle of the Delta from Fairfield through Rio Vista to Lodi, and through the north part of Suisun Marsh
- State Highway 4 runs east-west from Interstate 5 to Oakley
- County Roads J4 and J11 are in the south and central parts of the Delta, respectively.

Kinder Morgan Pipeline (Figure 2-5)

The Kinder Morgan pipeline traverses the Delta from east to west, from Stockton to west of Veale Tract, a distance of about 27 miles. Information provided by DWR indicates that the Kinder Morgan pipeline is a buried steel 10-inch diameter pipeline (URS, 2005). In addition to this pipeline, other Kinder Morgan pipelines cross Suisun Marsh, although their locations are not in the GIS database for DRMS.

Mokelumne Aqueduct (Figure 2-6)

The Mokelumne Aqueduct consists of three pipelines (aqueducts) along the route where it crosses the Delta. The three aqueducts are described as follows (EBMUD, 1995; 1996):



- Aqueduct #1: built in 1929; 65-inch diameter
- Aqueduct #2: built in 1949; 67-inch diameter
- Aqueduct #3: built in 1963; 87-inch diameter

Within the Delta, the aqueduct has both buried and elevated sections as follows (EBMUD, 1995; 1996):

- Stockton to Whiskey Slough (Holt) buried section (about 8½ miles). The depth of burial in trenches is about 5 feet; at the sloughs the burial depth is 15 to 20 feet.
- Whiskey Slough (Holt) to Indian Slough (Bixler) (just west of Palm-Orwood Tract) elevated section, except at the crossings at Middle River and Old River (about 9½ miles). The elevated section is supported on steel bents at 60-foot intervals. Each bent is supported by at least four concrete batter piles.
- West of Bixler buried section (about 18 miles). About 12 miles of the aqueduct, west of Veale Tract, is close to the legal Delta boundary.
- River crossings River crossings are at San Joaquin, Middle River, and Old River. At the river crossings, the aqueducts are buried in trenches and backfilled with rockfill. Aqueducts #1 and #2 are on piles that are founded in dense sand at Middle and Old rivers. Aqueduct #3 is buried 30 feet below slough bottoms.

Aqueduct #3 was seismically upgraded so that it could be returned to service within 6 months following the "Maximum Earthquake" on the Coast Range Central Valley (CRCV) fault (EBMUD, 1995; 1996).

Railroads (Figure 2-7)

The BNSF railroad traverses the Delta and Suisun Marsh from east to west, from Stockton to Interstate 780. The other railroads shown on Figure 2-7 are generally around the periphery of the Delta.

The railroad tracks are mainly supported on embankments in the Delta. On the north side of Woodward Island, the BNSF railroad is on a trestle bridge that is supported on piles. No direct information about the depth of piles was available. However, based on experience with similar trestle bridges, the depth of piles is expected to be 70 to 80 feet.

The BNSF railroad traverses between Upper and Lower Jones tracts on an embankment fill, except for a bridge over a passage between the two islands. The west abutment of the bridge was scoured during the June 2004 Jones Tract levee failure (URS, 2005).

Summary of Linear Assets

A summary of approximate lengths of linear assets within the 100-year floodplain (the beige shaded area on the figures indicated above; see also Section 4.1.2) is presented in Table 2-1.

Table 2-1 Summary of Linear Assets

Linear Asset	Approximate Length (miles)
PG&E Natural Gas Pipelines	280
PG&E Transmission Lines	390
Highways (Interstate highways, state highways, and county roads	
(as indicated above)	180
Kinder Morgan Pipeline	17
Mokelumne Aqueduct (Nos. 1, 2, and 3)	17
Railroads	120

2.2.2 Point Assets

The locations of the point assets are shown on Figures 2-8 (solid waste facilities and sewage treatment plants), Figure 2-9 (businesses), and Figure 2-10 (miscellaneous data; e.g., ports, airports, and heath care facilities).

Residences

Residences are scattered throughout the Delta; however, not all islands are populated or have residential structures. Urban areas (concentrations of residences) within or near the Delta include Rio Vista, West Sacramento (and the "Pocket Area"), Elk Grove, Clarksburg, Hood, Courtland, Walnut Grove, Isleton, Oakley, Brentwood, Stockton, Lathrop, Manteca, and Tracy (see Figure 2-1).

The data pertaining to residential structures was generated by HAZUS. There are several different types of residential structures:

- Single Family: This type of residential structure includes single family dwellings, consisting of 1 to 3 stories, regardless of whether or not the house has a basement or whether or not the house is on a split level. The data source used by HAZUS is the Federal Insurance Administration (FIA).
- Manufactured Housing: This includes 1-story mobile homes. The data source used by HAZUS is FIA.
- Duplex: This type of residential structure includes all grade/sub-grade apartment units in 1 to 5 story residential duplexes. The data source used by HAZUS for residential Duplexes is USACE-Chicago.
- Triplets/Quads: This includes all grade/sub-grade apartment units in 1 to 5 story residential triplets and quads. The data source used by HAZUS for residential triplets/quads is USACE-Chicago.
- Multi-Dwellings: This category includes all grade/sub-grade apartment units in 1 to 5 story multi-dwelling structures containing 5 to 9 apartment units. The data source used by HAZUS for residential multi-dwellings is USACE-Chicago.
- Multi-Dwellings (10 to 19 apartment units): This category includes all grade/sub-grade apartment units in 1 to 5 story multi-dwelling structures containing 10 to 19 apartment units. The data source used by HAZUS for multi-dwellings is USACE-Chicago.

- Multi-Dwellings (20 to 49 apartment units): This category includes all grade/sub-grade apartment units in 1 to 5 story multi-dwelling structures containing 20 to 49 apartment units. The data source used by HAZUS for multi-dwellings is USACE-Chicago.
- Multi-Dwellings (50+ apartment units): This category includes all grade/sub-grade apartment units in 1 to 5 story multi-dwelling structures containing 50+ apartment units. The data source used by HAZUS for multi-dwellings is USACE-Chicago.
- Temporary Lodging: This includes all low, medium, and high rise motel and hotel structures. The data source used in HAZUS is USACE-Galveston.
- Institutional Dormitory: This category includes all institutional dormitories. Because
 there is no usable distinct damage function for this category of residences, the damage
 function corresponding to the Nursing Home category was used. The data source is
 therefore the same source as for the Nursing Home category, which is USACEGalveston.
- Nursing Home: This includes low, mid, and high-rise nursing home structures, and the data source is USACE- Galveston.

Commercial Buildings

Commercial buildings are scattered throughout many Delta islands (Figure 2-9). The data source used by HAZUS is USACE-Galveston and includes all low, mid, and high rise structures. HAZUS has defined the following types of commercial structures in the Delta:

- Agricultural Structures
- Retail Trade
- Wholesale Trade
- Personal and Repair Services
- Professional/Technical Services
- Banks
- Hospitals
- Medical Office/ Clinic
- Entertainment and Recreation

Industrial Facilities

Industrial buildings are also scattered throughout the Delta. The data source used by HAZUS is USACE-Galveston and includes all low, mid, and high rise industrial structures. Based on HAZUS data, industrial structures in the Delta include heavy industry, light industry, high technology industry, construction industry, metals and minerals processing, and food and drug chemicals.

Bridges

There are three different types of bridges in the Delta:

- Highway Bridges: include highway bridges crossing islands in the Sacramento Delta, and the data source is HAZUS.
- Rail Bridges: include BNSF rail bridges crossing the Delta, and the data source is HAZUS.
- Other Bridges: include non-highway bridges from PBS&J all of which are owned by either county or State highway agencies.

Oil/Gas and Water Wells

In this TM, no distinction has been made between oil and gas wells. The data for the gas/oil wells has been provided by PBS&J, and are shown on Figure 2-5. The water wells are located on Bethel Island, Brannan-Andrus Island, King Island, New Hope Tract, and Water Island.

Natural Gas/Field Storage

PG&E has a natural gas field on McDonald Island. The gas field equipment is on platforms 30 feet above ground.

Ports

These assets include the ports of Sacramento and Stockton and ports along the west side of the Delta (Figure 2-10). HAZUS is the data source for ports.

Water System and Power Plant Assets

Water system assets within, or close to, the Delta include pumping plants, gates, and intakes owned by DWR, Contra Costa Water District (CCWD), and USBR. CCWD's assets are described in Appendix B. The pumping plants are shown on Figure 2-6 and include the following:

- DWR pumping plants: Harvey O. Banks (California Aqueduct), South Bay (South Bay Aqueduct), and Barker Slough (North Bay Aqueduct)
- CCWD pumping plants: Old River, Mallard Slough, Rock Slough Intake, and Pumping Plants 1 through 4
- USBR Central Valley Project: Tracy Pumping Plant (Delta-Mendota Canal).

Power plants in the Pittsburg - Antioch area are also within the Delta study area.

Summary of Point Assets

A summary of point assets within the 100-year floodplain (the beige shaded area on the figures indicated above; see also Section 4.1.2) is presented in Table 2-2.

Table 2-2 Summary of Point Assets

Point Asset	Number (from GIS)
Residences (single family, multi-dwellings, manufactured	
housing, and nursing residences)	116,535
Commercial Buildings	2,352
Industrial Facilities	126
Government Buildings	355
Schools and Colleges/Universities	72
Churches and Non-Profit	75
Highway Bridges	221
Railroad Bridges	10
Sewage Treatment Plants	20
Airports	5
Natural Gas Wells	291
Substations	32
Cell Towers	16
Tank Farms	14
Superfund Site	1

3. Data Sources for Infrastructure Definition

3.1 GIS Database

A GIS database was provided by the Department of Water Resources (DWR) for the DRMS project. A list of the known assets at this time, organized by category of asset and by island, was provided by DWR. This inventory of infrastructure assets was supplemented by other sources such as PBS&J (2006) under a separate DWR contract. No additional GIS work was undertaken to fill data gaps in the asset inventory.

A summary of the currently available data follows:

- The infrastructure information received from PBS&J was categorized as follows:
 - Utilities, oil, and gas (gas and oil well, transmission lines, etc.)
 - Water (public water supplies, solid waste facilities, etc.)
 - Sewers
 - Communication (cell towers)
 - Transportation (e.g., airports, marinas, major and minor roads, and bridges)
 - Miscellaneous data (e.g., prison and hospitals).
- HAZUS provided feature data, HAZUS Census block count, and cost data for structures (including commercial, education, government, industrial, transportation, and residential categories).
- California Energy Commission data received from DWR includes natural gas pipelines, natural gas storage, natural gas wells, oil pipelines for petroleum.

A total of 38 attribute tables are available. The types of data available in these attribute tables vary, depending on the type of infrastructure. Table 3-1 indicates the attributes that are listed for each asset type.

URS quantified each asset type per analysis zone by total count (point features), total length (line features), and total area (polygon or area features). Because some asset types lack information, it was not always possible to generate a unit cost from the GIS data alone. Much of the data lacks sufficient definition of quantitative attributes to evaluate reliable repair/replacement costs. For example, road widths and treatment plant capacities are often not described. Even if a helpful attribute column is in a data table, often times the column is empty or has no data. URS has attempted to remove inaccurate data and data overlaps. Many of the gaps in data and metadata can be attributed to a lack of a regional geographic information system that is consistent across political boundaries. In many cases, assumptions had to be made so that damage loss could be estimated.

3.2 **Data from HAZUS**

The base map data HAZUS uses to show counties, census blocks, census tracts, etc. is based on the 2000 Census TIGER¹ data. Census blocks are shown on Figure 3-1. The inventory data used to calculate the number of structures (or commonly called building counts) within census blocks/tracts is also based on the 2000 Census data, but has been updated in the latest HAZUS release (MR2). The update was not based solely on building counts, but rather it was based on the square-foot replacement costs from R.S. Means assigned to structures to calculate replacement costs. The R.S. Means square-foot costs were updated to 2005 and take into account differences in structure replacement costs around the U.S.

HAZUS census block count and cost data for structures are originally for census blocks that do not correspond to the analysis zones being used. For each census block, the percentage of the block that fell within the analysis zone was calculated and then the same percentage of the count and cost was applied to the asset type numbers. This approach makes the simplifying assumption of a uniform spatial distribution of the asset types across the census blocks. Analysis zones are shown on Figures 3-2, 3-3 and 3-4.

¹ The term TIGER[®] comes from the acronym Topologically Integrated Geographic Encoding and Referencing which is the name for the system and digital database developed at the U.S. Census Bureau to support its mapping needs for the Decennial Census and other Bureau programs.



Table 3-1 Data Available in Attribute Tables

Asset Type	Attributes
Airport Points	Internal Feature Number, Facility Type, Full Name, FAA district and type, City, State,
	Owner Type, Island Name
Airports	Internal Feature Number, Name, City, Owner, Use, Cost, Cargo, Number Of Flights,
	Number Of Passengers, Island Name
Bridges	Id, Name, Owner, Width, Lenmaxspan, Length, Scour, Traffic
Bridges not in HAZUS	Internal Feature Number, Name, Owner, Width, Maximum Span (Length), Length, Traffic, Island Name
Businesses_esri	Company Name, Sales Volume, Number of Employees, Island Name
Comm. Networks_HAZUS_SDURS	Objectid, Name, City, Owner, Use, Cost, Island Name
Dams_HAZUS_SDURS	Dam ID, Name, River, Maximum Storage, Normal Storage, Surface Area, Drain Area, Island Name
Delta Roads	Internal Feature Number, Name, Dam Type, Category Type, Island Name
Electrical Power Facility	Internal Feature Number, Name, Address, City, Island Name
Fire Stations	Internal Feature Number, Name, Cost, Island Name
Flying Services	Internal Feature Number, Company Name, Sales Volume, Number of Employees, Island Name
freeport_piperoute_preferred	Internal Feature Number, Island Name
gas_pipeline_kinder_morgan_LS_9	Internal Feature Number, Operator Name, Diameter, Island Name
Hazmat	Internal Feature Number, Name, Chemical Name, Island Name
hc_ambulatory	Internal Feature Number, Company Name, Sales Volume, Number of Employees, Island
_ ,	Name
hc_hospitals	Internal Feature Number, Company Name, Sales Volume, Number of Employees, Island Name
hc_nursing res	Internal Feature Number, Company Name, Sales Volume, Number of Employees, Island Name
Hwy Bridge	Internal Feature Number, Name, Owner, Width, Numspans, Length, Maximum Span
	(Length), Scourindex, Traffic, Cost, Island Name
Marinas	Internal Feature Number, Name, Public?, Number of Berths, Gas?, Dry_Boat, Island Name
Natural Gas Facility	Internal Feature Number, Name, Address, City, Owner, Island Name
NG_Pipelines_DWR	Internal Feature Number, Owner, Diameter, Legend, Island Name, Length (Ft)
NG_Storage_DWR	Internal Feature Number, Name, Owner, Comments, Status, Island Name, Total Acreage
NG_Wells_DWR	Internal Feature Number, Operator, Well_No, Island Name, Island Name, Total Acreage
Oil Facility	Internal Feature Number, Name, Address, City, State, Use
PBSJ Buildings	Building Name, City
PBSJ Cell Towers with Analysis Zones	Internal Feature Number, Address, City, Island Name
PBSJ Substations	Internal Feature Number, Name, Voltage, Circuits, Island Name
PBSJ_Gas_Oil_Production Fields	Internal Feature Number, Name, Island Name, Acreage
PBSJ_Gas_Oil_Wells	Internal Feature Number, Operator, Well_No, Island Name
PBSJ_Mokelumne_Aqueduct_Pipe	Internal Feature Number, MOKEPIPE_, IGDS_OFFSE, FID_Analys, Island Name,
	Region, Length (ft)
Petr_Pipelines_DWR	Internal Feature Number, Length, Operator Name, Diameter, Legend, Length (Ft)
Pipeline Transportation Services	Internal Feature Number, Company Name, City, State, Sales Volume, Island Name
Police	Internal Feature Number, Name, Cost, Island Name
Ports_HAZUS_SDURS	Internal Feature Number, Name, Owner, Use, Cost, Island Name
Prison	Internal Feature Number, Name, Address, City, Island Name
Rail	Internal Feature Number, Name, Owner, Length, Newcost, Island Name, New Length (Ft)
Rail Bridge	Internal Feature Number, Class of Bridges, Name, Length, Maximum Length Span, Traffic, Cost, Island Name

As a check on the HAZUS data, Google EarthTM was used to count the numbers of building structures on 20 islands/tracts in the central Delta and to compare these numbers with those in the HAZUS database for buildings (residential, commercial, and industrial structures). The 20 islands checked were Bacon, Bethel, Bouldin, Bradford, Brannan-Andrus, Byron, Holland, Jersey, Jones (Upper and Lower), Mandeville, McDonald, Orwood, Palm, Quimby, Sherman, Twitchell, Venice, Victoria, Webb, and Woodward. The results of this check indicate that the number of structures observed in *Google* EarthTM exceeded the HAZUS database by about 30 percent for these 20 islands. This increase may be due in part to the more recent structures observed in Google EarthTM (2004 to 2006 images) that post-dated the 2000 census block data. Even though a 30 percent increase was estimated, the HAZUS data was used because the overall 30 percent factor would not apply to all areas of the Delta. This check indicates a limitation of the data (see Section 7.3).

3.3 **Data from Major Asset Owners**

We contacted major owners of assets in the Delta to provide data and information that were used to estimate damage potential. Sources of such information include the following:

- A meeting was held on October 2, 2006, with the major commercial and public entity asset owners to make them aware of the infrastructure damage assessment effort and to elicit their support (i.e., guidance, documentation, etc.). The meeting invitation is included in Appendix A. The following major asset owners were contacted: DWR, East Bay Municipal Utility District (EBMUD), Pacific Gas & Electric Company (PG&E), Western Area Power Administration, Burlington Northern Santa Fe (BNSF) Railroad, Port of Stockton, Port of Sacramento, California Department of Transportation (Caltrans), Kinder Morgan, AT&T, San Joaquin Council of Governments, Sacramento Municipal Utility District (SMUD), and CCWD. Some of these asset owners responded with completed questionnaires or provided information during follow-up telephone conversations or meetings (Appendix B).
- Follow up meetings and telephone conversations with asset owners to obtain information on damage potential, costs of and time required for repair work (see Appendix B). In addition to the above major asset owners, the California Energy Commission (CEC) and the California State Fire Marshall were contacted to obtain information on liquefied gas pipelines. Waste water treatment districts were also contacted.
- CCWD, DWR, and USBR pumping plants were also included based on data provided by CCWD (Appendix B) and DWR (1995; 1999).
- Studies and reports that were available from utility companies.

4. Methodology/Approach

The approach to the work to estimate damage potential is discussed in this section and includes the following topics:

- Define stressing events.
- Assess response of infrastructure (damages/failure) due to the defined stressing events.
- Estimate cost of island infrastructure restoration.
- Estimate schedule (duration) for island repairs and restoration.

The above topics are discussed in the sections that follow. The approach to evaluate additional impact of water level rise and island subsidence 50 years in the future (2050) is covered in Section 5.

4.1 Stressing Events

The following stressing events were considered to evaluate potential damage to Delta infrastructure:

- Inundation (levee breaching and island flooding for two different flood stage conditions):
 - Mean Higher High Water (MHHW)²
 - Flooding from 100-year flood
- Scour due to levee breaching is included with inundation (i.e., scour of levee and landside of island is followed by inundation/flooding of an island)
- Earthquakes are considered if they cause levee breaching and island flooding

As will be discussed below, the area of the 100-year flood covers a larger area than that affected by MHHW.

These stressing events are discussed below.

4.1.1 Mean Higher High Water (MHHW)

The National Oceanographic and Atmospheric Administration (NOAA) maintains several tide stations in San Francisco Bay and has installed many temporary tide stations throughout the Bay and Delta. Although limited data are available from these stations, the data were reviewed to provide an estimate of the level of MHHW throughout the Delta. Tidal data from seven stations were reviewed to estimate MHHW in the Delta. Because

² There are two high tides and two low tides each lunar day (24 hours and 50 minutes) in the San Francisco Bay and Delta. The two tides are unequal, one of the high tides is higher than the other and one of the low tides is lower than the other. The higher of the high tides each day is known as higher high water (HHW) and the lower of the low tides is known as lower low water (LLW). Mean Higher High Water (MHHW) is the mean value of all the higher high tides for each day over a 19-year period (or "epoch"). (Mean Lower Low Water (MLLW) is the average of all the lower low waters during the same 19-year period.)



of the limited data available in the Delta, it was assumed that MHHW was constant in the Delta, which is an approximation as the level may increase up the rivers.

The MHHW elevation was entered into a GIS database that contained the topography of the study area. The intersection of the topographic surface and the MHHW surface is the MHHW boundary, as shown on Figure 4-1. Assuming a breach occurred during MHHW, the depth of inundation of infrastructure in an island is calculated as the MHHW surface elevation minus the ground surface elevation.

4.1.2 100-Year Flood

The estimate of the boundary of the 100-year floodplain was developed from Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs)³. FIRMs from the following counties were used in the estimate: Yolo, Solano, Sacramento, Contra Costa, and San Joaquin. The boundary was identified by evaluating the estimated flood elevation at the locations indicated by the FIRMs. This information was used to approximate the area that could be inundated if the levee(s) at that location were to fail. These elevations were sometimes representative of water surface elevations within a channel, for example the San Joaquin River, but were often elevations within the floodplain (e.g., outside of the levees). Where both existed, the value in the floodplain was used⁴. These elevations were entered into a GIS database that contained the topography of the study area. A surface was developed from the floodplain elevations. The intersection of the topographic surface and the floodplain surface was the floodplain boundary. This 100-year floodplain boundary is shown on Figure 4-1, together with the MHHW boundary. This figure shows that the area affected by the 100-year flood would cover a larger area than that affected by MHHW. Assuming a breach occurred during a 100-year flood, the depth of inundation of infrastructure in an island or tract was calculated as the 100-year flood plain surface elevation minus the ground surface elevation.

4.1.3 Scour Zones

As will be discussed in Section 4.2.2, a scour hole due to levee breach was assumed to be 2,000 feet long (perpendicular to the island perimeter/levee). As such, the areas of islands that would be vulnerable to scour extend 2,000 feet inboard of and parallel to the island levees/perimeters. Figure 4-2 shows the perimeters of the scour range for each of the islands and tracts in the Delta. Figure 4-3 shows a schematic representation of the affected extent of a linear asset within a scour zone in an island.

4.1.4 Earthquake

As stated in Section 1.2, infrastructure assets that fail as a result of flooding/inundation caused by levee breaching from an earthquake are within the DRMS study scope. The

⁴ On the FEMA FIRM maps for the Delta, elevations of the 100-year water surface (100-year flood elevation) provided for an island may differ from the value of the flood elevation given for the adjacent river. In these cases, the flood elevation provided for the island was used to generate the 100-year flood map since the flood map was meant to represent the case with flooded islands.



³ FEMA FIRMs are in the process of being updated and the area in the 100-year floodplain may be changed significantly based on studies that are currently under way.

effects of earthquakes are considered insofar as they would cause levee breaching and island flooding. Flooding was assumed to result from the MHHW level (the 100-year flood and a major earthquake were assumed not to be coincidental). As previously stated, direct damage to assets caused by an earthquake alone, without a levee breach and island flooding/inundation, was not evaluated.

4.2 Response of Infrastructure to Stressing Events

For infrastructure facilities, damage was assessed assuming each island and adjoining sloughs are flooded. Approaches to assess damage are discussed in the sections below.

Damage Due to Inundation 4.2.1

For each island in the Delta, the percent damage to each asset within the island was estimated assuming that the island is flooded. Using available GIS data for Delta resources, the quantity of each asset that would be damaged was estimated. A unit cost of repair or replacement of the damaged asset was estimated based on experience with similar projects. The total cost impact was calculated as the product (percent damage x quantity x unit cost).

The following summarizes the approach used to estimate damage to infrastructure due to inundation of an island:

Point Assets

- Data from HAZUS-MH MR2 (FEMA, 2006) was used to estimate flood inundation losses for point assets (residential construction, commercial buildings, etc). HAZUS provides data on replacement costs of these assets. Repair/replacement costs are based on a percentage of the total replacement cost (percent damage times the replacement cost). The percentage of damage incurred, from HAZUS, is based on inundation depths within a given island. In accordance with FEMA, inundation depths causing greater than 50 percent damage to a structure will typically result in total loss of the structure.
- For point assets not covered by HAZUS, repair/replacement costs were estimated by using the unit cost taken from historical data and conceptual-level cost estimation. Cost data from wastewater and sewage treatment plants was obtained from owners when available.
- Based on information from DWR (Telephone conversation, G. Gravier, DWR, 2006), DWR pump stations (e.g., Banks) would not be vulnerable to physical damage as a result of levee failure. A levee failure, however, would affect water quality and thus the pump station's ability to deliver water due to salinity and environmental issues. Similarly, power plants were assumed to be undamaged as a result of levee failure.
- Landfills and solid waste facilities were assumed to be undamaged as a result of levee breaching. It was assumed that such facilities were designed and constructed to withstand erosion due to flooding.
- Tank farms were assumed to be damaged due to scour, but not due to inundation, as these facilities typically have perimeter containment berms.

Linear Assets

- For linear assets, such as gas pipelines, water pipelines, transmission lines, and railroads, repair costs were either obtained from historical experience as reported by asset owners or by approximate cost estimates.
- If there were only inundation, with no scour, natural gas pipelines would generally not be vulnerable to damage. This is because the pipelines are typically buried 5 feet deep; this burial depth would preclude flotation.
- Pipelines are vulnerable to damage from scour (see Section 4.2.2). Scouring would remove the soil cover, and the natural gas pipelines would float. There has not been a ruptured gas pipeline as a result of island scour, because the steel pipelines are flexible (see Appendix B). PG&E would reduce the operating pressure in a pipeline that floats (due to soil removal), and would repair it by anchoring (Appendix B). However, if a pipeline were to be in the direct path of a scour hole that has a length of 2,000 feet, it was assumed that such an event would likely cause rupture of a pipeline due to the high velocity and turbulent flow conditions.
- It was assumed that buried aqueducts would not be vulnerable to inundation (with no scour). However, elevated aqueducts may be damaged if inundated. The elevated portion of the Mokelumne Aqueduct was damaged during the June 2004 Jones Tract levee failure (URS, 2005). The repair costs to the exteriors of the three Mokelumne Aqueduct pipelines for the Jones Tract failure was \$10.6 million, for a length of 51/4 miles. The aqueduct pipelines remained in service during and after the Jones Tract levee failure.
- Transmission lines and cell towers were assumed to be vulnerable to scour damage, but not inundation.

4.2.2 Damage Due to Scour

The dimensions of scour holes were based on historical data from Delta levee failures as discussed in the Levee Vulnerability TM. Scour holes typically have a bowl shape and can be as deep as 77 feet (Levee Vulnerability TM). For infrastructure damage assessment, a scour hole was assumed to be 2,000 feet long landward of the levee (perpendicular to the island perimeter/levee), 500 feet wide (parallel to the island perimeter/levee), and 50 feet deep. These scour hole dimensions are assumed to apply to both the MHHW and 100-year flood events, and for current and 2050 conditions to evaluate assets potentially vulnerable to scour damage. As a result, the scour limits shown on Figure 4-2 would remain unchanged.

As stated above, Figure 4-2 indicates the areas around the island perimeters that would be potentially vulnerable to scour damage. Scour holes could occur anywhere within the island perimeters shown on Figure 4-2.

Important components to assess vulnerability to damage of infrastructure due to scour include their locations with respect to a potential scour hole and the type of foundation support system. Infrastructure supported on deep foundations that extend sufficiently below the depth of scour (piles substantially deeper than 50 feet) would have less vulnerability to damage and failure than would infrastructure supported on shallow

foundations. Heavy structures such as bridges and aqueducts (e.g., the Mokelumne Aqueduct) are typically founded on deep foundations that extend below layers of peat and soft ground. Although such structures would be less likely to fail as a result of flooding than assets that are founded on shallow foundations, the 50-foot-deep scour zone, together with the lateral loading due to the inward flow of water, was assumed to be sufficient to cause failure of infrastructure assets that are within a potential scour zone.

During the June 2004 Jones Tract failure, scour of the west bridge abutment for the BNSF railroad embankment occurred. The bridge crossed over a passage within the embankment between Upper and Lower Jones Tract. Water flowing from Lower to Upper Jones Tract caused the scour damage to the railroad abutment and undermined the tracks; the damage amounted to about \$8 million in repair costs (URS, 2005). This scour damage potential was considered in the analysis of scour damage potential within Jones Tract.

4.3 **Damage Estimation**

4.3.1 **General Methodology**

Damage to Structure Assets

Costs to repair damage to various infrastructure assets were estimated from various sources. Unit prices were estimated from available cost data and repair costs from historical failures (e.g., the June 2004 Jones Tract failure) (URS, 2005). Where such cost data were unavailable, costs were estimated from construction industry cost data (e.g., using published information in R.S. Means, 2005) and from asset owners.

HAZUS provided cost data for point assets as discussed in Section 4.2.1. Spot checks were made to compare the cost of residences from HAZUS with real estate listings in the West Sacramento area (considering that land costs are not accounted for in HAZUS; see also Section 2.2).

For linear assets, such as gas pipelines, water pipelines, roads, and railroads, asset replacement costs and repair costs were obtained from historical experience as reported by asset owners (e.g., utilities), published data, or by approximate cost estimation. Asset replacement cost data for linear assets are presented in Table 4-1.

Loss of crops and farmland are estimated in the Economic Consequences TM.



Table 4-1 Estimated Replacement Costs for Linear Assets

(estimated cost in \$ million per mile)

Natural Gas Transmission Pipelines ¹		
4" to 8" dia.	0.65	
10" dia.	0.70	
12" dia.	1.0	
16" dia.	1.2	
20" dia.	1.5	
24" dia.	1.7	
30" dia.	2.1	
36" dia.	2.5	
42" dia.	3.3	
PG&E Line 57C ²		
24" dia.	8.5	
Kinder Morgan Pipeline ³		
10" dia.	1.1	
Mokelumne Aqueducts ^{4,5}		
3 parallel aqueducts:	26.4	
65", 67", & 87" dia.		
Railroads ⁴		
Single track	1.5	
Roads/Highways ⁴		
2 lanes – minor road	0.5	
2 lanes	1.0	
4 lanes	1.7	
Transmission Lines ⁶		
60 kV lines on wood poles	0.42	
115 kV lines on tubular steel poles, towers, or wood poles	1.3	
230 kV lines on steel towers	1.3	
500 kV lines on steel towers	1.7	

¹ Adapted from Parker, N. (2004). Using Natural Gas Transmission Pipeline Costs to Estimate Hydrogen Pipeline Costs, UCD-ITS-RR-04-35, Institute of Transportation Studies, University of California, Davis.

² PG&E (undated). Gas Transmission and Storage 2005 Rate Case Testimony, Chapter 5, Line 57C Reliability Report.

³ URS (2005). In-Delta Storage Program, Risk Analysis, Draft Report.

⁴ URS, cost estimate.

⁵ EBMUD (1995). Final Report, Mokelumne Aqueduct Seismic Upgrade Project, Preliminary Design.

⁶ Communication with PG&E, Electric Transmission.

Damage to Building Contents

In accounting for damages to building contents, the approach recommended by HAZUS was used. This approach involved:

- Calculating the value of building contents as percentage of the structural replacement value.
- Multiplying the contents value by an estimate of the percentage damage based on HAZUS depth-damage relationships for different building types.

HAZUS provides the following building content values as percentages of the structural replacement values (FEMA, 2006):

Residential: 50 percentCommercial: 100 percentIndustrial: 150 percent

• Government: 100 percent

Debris Removal Costs

Debris removal costs are a substantial cost immediately following a flood event after repair of levee breaches and dewatering. Our literature review has shown that these costs are highly variable, but typically comprise about 10 percent of total damages (Water Studies, 1995). For Hurricane Isabel, which in 2003 cut through large tracts of Virginia, debris removal costs were estimated at almost 7.5 percent of the estimated damage costs of \$1.6 billion (Virginia Department of Emergency Management, 2003, website). Based on our review of literature, debris removal costs have been estimated at 10 percent of the total damage costs (infrastructure plus contents).

Environmental Clean-up Costs

Environmental clean-up costs were also estimated and include cleaning up petroleum product/chemical spills. One such clean-up was the April 2004 diesel fuel spill (approximately 124,000 gallons) from a Kinder Morgan pipeline in Suisun Marsh (U.S. EPA, 2007). Historical cost data on environmental clean-ups in the Delta were unavailable. As such, these costs were based on historical costs of recent clean-ups in other marsh/wetland areas of California. Based on experience, spill clean-up and subsequent mitigation costs as a result of a petroleum pipeline break was estimated to be in the order of \$10 million.

4.3.2 Multiple Island Failures

Cost estimates in the asset damage tables (see Section 7) are assumed to apply for up to five island failures. The cost for repairs due to multiple island failures is likely to be more than for a few island failures due to many complexities. If there is a sudden increase in the demand for construction, it is expected that the construction costs would increase due to the supply and demand issues for equipment, labor and, materials. With multiple levee failures, scaling factors (multipliers) have been used to increase costs of repair. The insurance industry refers to what has been termed "scaling factors" in this TM as "postevent inflation" or "demand surge". To support the use of scaling factors, literature from



post-catastrophic events was reviewed, including Hurricane Katrina (see Section 8, References, for websites used to estimate cost scaling factors for multiple island failures). Estimates of scaling factors were found to typically range from about 1.2 to 2.2 for extreme catastrophic events such as Hurricane Katrina. Based on the literature review, cost scaling factors estimated for multiple island failures are indicated below.

For multiple island failures (up to 30), scaling factors will be applied to the estimated costs. Linear cost scaling factors (for both point and linear assets) that would be applied to more than five island failures are as follows:

1 to 5 island failures: 1.0
10 island failures: 1.2
20 island failures: 1.6
30 island failures: 2.0

4.4 Repair Schedule Requirements

4.4.1 General Methodology

Repair duration/schedule requirements are needed for the Economic Consequences TM for estimation of economic losses to various businesses/utilities during the time when infrastructure is out of service following a levee failure event. The schedule for repairs is measured from the time access to an island is gained to initiate repairs to damaged infrastructure until repairs are completed. This information is based on historic experience (e.g., the June 2004 Jones Tract failure as reported in URS, 2005; Hurricane Katrina, see Section 4.4.3).

The Emergency Response and Repair TM addresses the time required to repair island levee breaches and pump out the flooded islands. The sum of the levee repair and island pump out time plus the asset repair time represents the total outage time for which there would accrue an economic loss and adverse economic consequence to asset owners.

Some infrastructure assets can only be repaired or replaced after the levee breaches on an island have been repaired and the islands pumped out and include residential, commercial, government and industrial structures, and water treatment plants.

We have developed relationships of repair times versus percent damage for the various asset categories for up to five inundated islands. The estimated repair times were based on average percent damage up to 50 percent, at which point full replacement would occur (see Section 4.2.1). For residences damaged more than 50 percent, the estimated replacement time would be 2 years. For commercial, industrial and government buildings damaged more than 50 percent, the estimated replacement time would be 1.5 years. The relationships between repair times (Tr, in months) and average percent damage (D, in percent) for residences and other structures (commercial, industrial, etc.) are as follows:

Residences: Tr = 0.48D, for D<50% (1)

Other structures: Tr = 0.36D, for D<50% (2)

Other infrastructure assets could be repaired and returned to at least partial service prior to levee breach repairs and island pump out. After island pump out, final repair work would be performed.

For up to five island failures, the following repair times are considered for linear assets:

- Information gained from EBMUD indicates that emergency repairs to the Mokelumne Aqueduct can be repaired under water prior to pump out of a flooded island (see Appendix B). EBMUD indicated that it could operate Aqueduct #3 without Aqueducts #1 and #2 for several years (EBMUD 1995; 1996).
- Transmission towers could be repaired prior to island pump out.
- In the event of a failed natural gas pipeline, PG&E would isolate the failed segment by using automated valves. Customers on either side of the failed pipeline segment would be supported by other gas pipelines in the system (see Appendix B). PG&E reported that a break in Line 57B in a levee area would take about two months to repair (PG&E, undated). Line 57C (see Section 2.2.1) would provide gas supplies due to an outage of Line 57B. The information provided by PG&E indicates that natural gas pipeline repairs have taken between 3 and 4 weeks (see Appendix B).
- The BNSF railroad embankment was repaired in less than a week during the June 2004 Jones Tract failure, prior to island pump out.
- It is assumed that highways and roads could be repaired in less than a month after island pump out.

Based on the above, repair times were assumed to be one month for linear assets (except for Interstate Highways), for up to five flooded islands. For Interstate Highways, repair times were assumed to be one week.

4.4.2 Multiple Island Failures

For multi-island failure scenarios, certain questions need to be acknowledged. For example, if many islands were to be flooded, would homes be rebuilt at all? If so, would it take many years or decades before people choose to rebuild in an area that just had deep, long duration flooding? As well documented by New Orleans, a large flood changes the "picture" of rebuilding and future development in significant ways that would likely endure for decades. Nonetheless, in the paragraphs that follow, it was assumed that rebuilding would occur.

Levee failures that occur on multiple Delta islands due to a major event (e.g., a major Bay Area earthquake) would affect the time to repair infrastructure even though the response to a major event in the Delta would be nationwide; contractors and materials would be mobilized from many areas of the country. The response time to multiple levee failures may be longer than for an isolated failure of a levee. This longer response time following major events would result from several factors that include the following:

- Availability or adequacy of disaster relief funds
- Access to inundated areas many roadways would be damaged or destroyed



- Competition for resources (e.g., construction labor, equipment, materials)
- Prioritization and phasing of restoration and repairs.

Lifeline systems (e.g., water, gas, power, communication systems, and railroads) would be among the first infrastructure assets to be brought back on line.

Point Assets

The repair time estimates for point assets allow for an estimated 6 months for cleanup and establishing access to the islands after they have been pumped out, but prior to starting asset repair work. Once access and other critical/emergency resources such as hospitals and emergency shelters have been provided, replacement and repair of point assets could begin.

Inundation of multiple islands would require longer response and repair times. Because of the lack of information on repair times (due to the absence of historic experience), especially for multi-island failures, judgment was used to estimate repair times. Section 4.4.3 provides a comparison of repair times with the estimates made for reconstruction activities in New Orleans following the August 2005 Hurricane Katrina. To address this longer response and repair time for multiple island failures (up to 30), scaling factors will be applied to the relationships for repair times. The assumed linear repair time scaling factors for point assets that would be applied to more than five island failures follow:

1 to 5 island failures: 1.0
10 island failures: 1.4
20 island failures: 2.2
30 island failures: 3.0

Linear Assets

Linear assets may be damaged by inundation, but they would likely not fail and result in loss of service. Scour, however, would cause linear assets to fail (see Section 4.2.2). The time required to repair linear assets damaged by scour under multiple island failure scenarios would depend on a number of factors such as extent of damage and access. Based on information provided by asset owners, it was assumed that PG&E natural gas pipelines, railroads, transmission lines, Kinder Morgan pipeline, and the Mokelumne Aqueducts would be repaired prior to pumping out flooded islands. Such repairs may be made under water (e.g., for the Mokelumne Aqueducts; see Appendix B) or within areas protected by sheet pile cofferdams constructed from barge platforms.

For multiple island failures (more than five islands) involving multiple disruptions to linear infrastructure assets due to scour, the following repair times are considered:

- PG&E natural gas pipelines, railroads, transmission lines, petroleum pipelines: 3 months (island pump out not required for repair)
- Mokelumne Aqueducts: 6 months (island pump out not required for repair) (EBMUD, 1996; Appendix B)
- Highways (repair times after island pump out):



- Interstate Highways: 1 week
- State Highways: 3 months
- Other Highways and Roads: 6 months (assumed to be repaired after State highways are repaired).

4.4.3 Comparison of Reconstruction Times with Hurricane Katrina Estimates

It is useful to compare the estimated repair times for Delta assets with estimates for reconstruction activities in New Orleans following the August 2005 Hurricane Katrina. Reconstruction can be broken down into four post-disaster periods: emergency response, restoration, reconstruction, and betterment reconstruction as defined below (Kates, et al., 2006) and as they may be related to the DRMS effort for the Delta:

- Emergency response: Search and rescue, emergency shelter and feeding, establishment of order, clearing of major roads, etc. For the DRMS effort, this period covers temporary housing and loss of government services (see Economic Consequences TM) and repair of breached levees and pumping out of islands (see Emergency Response and Repair TM).
- Restoration: Repairs to essential infrastructure.
- Reconstruction: Providing for infrastructure and housing.
- Betterment reconstruction: Providing for improvements to infrastructure (not included in DRMS scope).

These periods overlap, and the second and third periods last roughly 10 times longer than the previous period. For New Orleans, the main part of the emergency response time was about 6 weeks and the restoration period was about 40 weeks (about 10 months). The estimated reconstruction time for New Orleans would be between 8 and 11 years (Kates, et al., 2006).

For the Delta, following multi-island failures, the reconstruction of residences could be on the order of 2 years (for less than 5 island failures, Section 4.4.1) times a factor of 3 (for 30 island failures, Section 4.4.2), which equals 6 years. This time estimate compares reasonably well with the New Orleans estimate of 8 to 11 years.

4.5 Assumptions Used in Infrastructure Damage Assessment

The following assumptions were used in the infrastructure damage assessment:

- Infrastructure would be maintained at present levels (i.e., no deterioration of infrastructure over time).
- Available loss estimation models are applicable for future years. For example, the loss estimation model (which predicts the amount of loss corresponding to a certain depth of inundation) is applicable in the present as well as in future years.
- Depth of inundation values represent the average value for the entire analysis zone because the asset type was not individualized but from a census block level or from a line length (see Section 3.1). An island is divided into analysis zones in which the average depth of inundation was estimated for each zone. The depth of inundation in

each analysis zone was used to estimate the depth of inundation for the assets lying within the boundary of that same analysis zone. Thus, an asset located within the boundary of an analysis zone in which the average depth of inundation is 15 feet would also have a depth of inundation of 15 feet. However, because the depth of inundation values represent averages, variations of inundation depth across the analysis zone are not taken into consideration.

- In the case where a structure has several subclasses incurring different percentages of damage, the average percentage is used for all subclasses of the structure. For example, consider two different subclasses of a single-family residence: a 2-story single family residence with a basement, and a 2-story single family residence without a basement. Although the amount of damage incurred by each of the two residences will most likely be different, the amount of damage incurred by each is considered to be the average of both.
- If a damage function was not found for a specific occupancy type, it is assumed the damage function for a similar structure would suffice. For example, no damage function was found for Institutional Dormitories, so the damage function in HAZUS for Nursing Homes was used for the dormitories.
- The repair cost for the Kinder-Morgan pipeline is based on the In-Delta Storage Program Risk Analysis Report (URS, 2005).
- Elevated segments of the Mokelumne Aqueduct (Orwood Tract, Upper Jones Tract, and Woodward Tract) are assumed to incur damage as reported for the June 2004 Jones Tract levee failure. For that event, the three aqueduct pipelines incurred \$10.6 million in damage over a 5¼-miles of the aqueduct, resulting in a cost of about \$2 million per mile. This damage cost was assumed to be the same regardless of the duration of inundation. Buried segments of pipelines and the Mokelumne Aqueduct are assumed to incur zero damage as a result of inundation (without scour).
- Gas oil production fields, natural gas wells, and natural gas storage facilities are assumed not to incur damage due to inundation (without scour). The oil and gas wells on the islands are normally shut down if flooding is impending, and would not be damaged. It has been assumed that the wells would be shut down in time.
- As stated above, an asset within a scour hole is considered to be destroyed and, therefore, the repair cost is equal to its replacement cost. The estimated damage due to a scour event is based on a differential cost defined as: differential cost = [asset replacement costs in a 2000-foot-long scour zone] minus [cost damage due to inundation in the scour zone, for the MHHW event and for the 100-year flood]. The differential cost due to scour can be added onto the damage due to inundation to obtain the total asset damage within an island.
- The quantity of each asset type from HAZUS (residential, commercial, education, industrial, and government buildings) was calculated by assuming a uniform distribution of assets within each census block (i.e., the scour zone would have the same density of structures as the entire census block). Based on this assumption, the quantity of assets within the 2000-foot scour zone was estimated (the average number of assets per census block was prorated to estimate the average number of assets per



scour zone). The GIS data indicated the average number of commercial structures for each census block. To estimate the number of structures within the scour zone of an island, the quantity from the census block was prorated as follows: [(area of scour zone)/(area of census block)]*(number of structures in census block).

5. Estimate of Impacts to Delta Infrastructure in the Future

An estimate of impacts to Delta infrastructure in the next 50 years in the future (approximately 2050) was made. This estimate depends on the following three factors:

- Asset changes change in the amount of infrastructure assets as a result of population growth.
- Delta water level rise increase in MHHW and 100-year flood levels due to climate change.
- Subsidence decrease in island elevation levels due to oxidation of peat layers.

The increase in water levels, coupled with the decreasing island elevations, would increase the amount of inundation of Delta assets in the future. The percentage damage would therefore increase, resulting in greater future repair costs and repair times. The depth of inundation-percent damage functions (in HAZUS) will be assumed to remain unchanged with time.

The above three factors are discussed in the sections that follow.

5.1 Asset Changes

The change in the density of point assets, such as residential, commercial, and industrial buildings, will depend on population growth. In addition, minor roads and treatment plants would increase with population growth. The population for each island in 2030 is based on the California Water Plan Update (DWR, 2005). A linear growth rate was assumed between the present and 2030 for each island, and then extrapolated to 2050, unless the island population reaches saturation, in which case, no growth was assumed.

By comparing the 2030 population to the present population, a prorating factor (rate of change of population) was obtained for each island. These factors were used to estimate asset density for each island in 2050. Where population data are unavailable, the asset growth rate was estimated by using the household growth rates (provided by DWR). The prorating factors were applied to assets that depend on population (e.g., residential, commercial, industrial buildings, and minor roads).

Owners of high value infrastructure assets (e.g., aqueducts, natural gas pipelines, transmission lines, railroads, etc.) have indicated there are no current plans to increase such infrastructure in the Delta despite population growth projections (see Appendix B). Accordingly, it was assumed these assets would remain unchanged through 2050.

5.2 Delta Water Level Rise

As stated in the Climate Change TM, water levels in the Delta are expected to rise due to sea level rise resulting from global warming. Values of mean sea level rise for 2050 (relative to 1990 levels) were obtained from the Climate Change TM. The range was

20 to 41 cm, with a mean value of 30 cm (1-foot). For assessing the impact of sea level rise on infrastructure in 2050, 1-foot was selected for the mean sea level rise. This sea level rise amount was added to the current MHHW level and the 100-year level (defined by FEMA; see Section 4.1.2).

5.3 Subsidence and Depth of Inundation

Subsidence of the Delta islands is occurring and will continue to occur as a result of oxidation of peat layers. The island elevations in 2050 were provided in the Subsidence TM. These elevations were used to modify the topographic data of the Delta.

With the modified topographic data and the information on sea level rise, new potential inundation boundaries and inundation depths for 2050 were estimated. The inundation boundaries for MHHW and 100-year flood events for 2050 are compared with the current boundaries, as shown on Figure 4-1. As shown on this figure, the change in inundation area is small for the MHHW and 100-year flood events. Therefore, it was considered that the current inundation boundaries are sufficiently accurate for estimating asset losses in 2050.

With the increased inundation depths, damage to point assets for each island was estimated by using the depth-damage functions in HAZUS.

6. Analysis of Uncertainty in Infrastructure Repair Cost Estimation

6.1 Types of Uncertainty

Infrastructure repair costs for several asset types were estimated using a depth-damage relationship that relates percent flood damage for a given point asset class in a given island and the depth of inundation in the island. This relationship was based on published results of previous studies, including the HAZUS model developed by FEMA. Because the actual data available for deriving such relationships are generally limited, there is uncertainty in the derived relationship. This uncertainty is due to limited data and/or knowledge gaps and is termed *epistemic* uncertainty. In principle, the epistemic uncertainty can be reduced with the collection of more data (i.e., damage data from more flood events).

Even when a large amount of damage data is available from many flood events (which would make the epistemic uncertainty negligible), the actual percent damage from the next flood event, and the corresponding repair costs, cannot be predicted with certainty. This uncertainty is termed *aleatory* uncertainty and cannot be reduced even with the collection of more data.

Approaches to assessing the two types of uncertainty – epistemic and aleatory – are described below.

6.2 Assessment of Epistemic Uncertainty

If sufficient data are available on observed damage from past floods, regression analysis of the data may be used to derive a depth-damage relationship and to assess the standard error in the best-fit regression line. The standard error is a function of the amount of

scatter in the data around the best-fit line and the sample size. Epistemic uncertainty in the depth-damage relationship can then be represented by defining alternative relationships with specified confidence levels.

If sufficient empirical data are not available for regression analysis, the approach would be to develop alternative depth-damage relationships that might model expected, pessimistic, and optimistic estimates of damage that represent the range of epistemic uncertainty. In this analysis, the expected depth-damage relationship was based on the published models in HAZUS. The pessimistic and optimistic depth-damage relationships will define upper and lower bounds on the percent damage for any given depth of inundation. These bounds are based on the scatter in the damage estimates from events with similar depth of inundation. The three depth-damage relationships may be defined such that the expected relationship has the highest probability of being the correct representation, which was judged to be 50 percent, while the pessimistic or optimistic relationship each has a lower probability of being the correct representation, which was judged to be 25 percent. A given depth-damage relationship will be assumed to apply to all assets; that is, the epistemic uncertainty for different assets will be assumed to be correlated.

An assumed depth-damage relationship directly affects the extent of damage to each class of assets and the corresponding repair costs. The expected depth-damage relationship was used to estimate repair costs for different assets in various Delta islands assuming each island is flooded. A confidence level of 50 percent was assigned to these repair costs. Based on experience with the accuracy of estimated repair costs, the pessimistic and optimistic depth-damage relationships were estimated to result in plus 30 percent and minus 15 percent change from the costs estimated using the expected depth-damage relationship. A confidence level of 25 percent was assigned to each of these two scenarios.

The DRMS procedure for assessing epistemic uncertainty is similar to the one used by the USACE HEC-FDA program (USACE, 1998; Version 1.2 is current version) in which the uncertainty in the depth versus percent damage function is specified in terms of percent standard deviation (i.e., a coefficient of variation). Note that the upper- and lower-bound curves to be developed in the DRMS analysis can be used to assess an average percent standard deviation.

There are, however, some differences between HEC-FDA and DRMS methods of specifying and analyzing uncertainty. One difference is that, whereas HEC-FDA specifies the uncertainty separately for three types of damage (structure, contents, and other), DRMS specifies the uncertainty only in the aggregate damage. For the macro-level focus of DRMS, an aggregate estimate of the total damage was deemed to be adequate. A second difference is that HEC-FDA also specifies the uncertainty in the first floor elevation of structures. For DRMS, data on first-floor elevation was unavailable and hence the uncertainty in that factor was not considered explicitly; rather, this was considered to be a part of the uncertainty in the depth-percent damage function. A third difference is that the HEC-FDA method combines epistemic and aleatory uncertainties to calculate the aggregate expected damage. In contrast, the DRMS method analyzes and displays the two types of uncertainties separately. The DRMS approach allows an

assessment of the confidence in the estimated frequency of exceeding different damage levels.

6.3 Assessment of Aleatory Uncertainty

Even if the median depth-damage relationship were to be known with certainty (i.e., it is the correct model), the actual percent damage from the next flood event, and the corresponding repair cost, would still be uncertain. This aleatory uncertainty will be assessed based on experience with, and knowledge of, the accuracy of engineering cost estimates. For this study, the focus will be on estimating the total repair costs of infrastructure assets in a flooded island. Accurate estimates of the repair costs of individual assets would not be required. Because the total repair cost will be the sum of many cost elements corresponding to the different asset classes, the aleatory uncertainty in this sum will be reduced to the extent that the costs of the different asset classes are independent of each other. Specifically, the coefficient of variation in the sum of *n* independent cost elements is equal to the coefficient of variation of each cost element divided by square root of *n*. Within a given asset class, it may be conservatively assumed that the repair costs of individual assets are correlated and hence there is no reduction in the coefficient of variation for the total cost for the asset class.

The typical coefficient of variation in the estimates of individual repair cost elements is of the order of 30 to 50 percent. The number of different asset classes in a given island is of the order of 10. Consequently, the coefficient of variation in the total repair cost is assessed to be of the order of 10 to 16 percent. Conservatively, a coefficient of variation of 15 percent may be assumed for the total repair cost. This is comparable to the coefficient of variation of about 12 percent estimated for the New Orleans Katrina damage analysis based on Corps of Engineers previous studies of flood damage reduction. A lognormal distribution will be assumed for the total cost. This is an appropriate distribution for cost, because cost can only assume positive values and the cost distribution is generally skewed to the higher values.

The probability distribution of the total repair cost is based on the expected value and coefficient of variation of the total repair cost for a given scenario of epistemic uncertainty. The probabilities of exceeding different values of the total repair cost can then be calculated using this probability distribution. This analysis may be repeated for different scenarios of epistemic uncertainty. These results, along with the assessed confidence in each epistemic uncertainty scenario, may be used to express confidence levels in the probability of exceeding different values of the total repair cost.

The DRMS procedure for assessing aleatory uncertainty is similar to the one used by the USACE HEC-FDA program in which the uncertainty in the dollar asset value is specified in terms of percent standard deviation (i.e., a coefficient of variation). One difference, as in the case of the epistemic uncertainty, is that HEC-FDA specifies uncertainty separately for three types of asset values (structure, contents, and other), whereas DRMS specifies the uncertainty only in the aggregate value. Another difference, as noted above, is that HEC-FDA combines the epistemic and aleatory uncertainties to calculate the aggregate expected damage, whereas DRMS analyzes and displays the two types of uncertainties separately.

7. Results of Study

7.1 Asset Tables

This TM describes the methodology that was used to estimate damage to Delta infrastructure and the resulting costs and schedule durations needed to repair the inundation damage caused by levee breaches due to the hazards considered in the DRMS study. In this TM, the term "infrastructure" is used to designate all structures and buildings, and their contents. Damage also includes debris removal and environmental clean up costs.

The results of this study are presented in tables of estimated asset damage that include:

- Type and number of assets for each Delta island
- Average depth of inundation of assets for each flooding event
- Estimates of percent damage for selected assets (for which the damage estimate is based on the percent damage times the total cost of asset)
- Estimated cost of damage for each asset type
- Total estimated cost of damage of assets for each island
- Total replacement cost of assets for each island
- Estimated repair times for the various asset types.

Appendix C provides a further description of the information contained in the tables of asset damage. The above information is presented in the tables of asset damage as indicated below (the tables are located after Section 8). Tables 7-1 to 7-3 pertain to current conditions and Tables 7-4 to 7-6 pertain to 2050 conditions.

- Estimate of Asset Cost Damage and Repair Times Mean Higher High Water (MHHW) - Current (Table 7-1a)
- Estimate Summary of Asset Cost Damage by Island Mean Higher High Water (MHHW) Current (Table 7-1b)
- Estimate of Asset Cost Damage and Repair Times 100-year Flood Current (Table 7-2a)
- Estimate Summary of Asset Cost Damage by Island 100-year Flood Current (Table 7-2b)
- Estimate of Asset Cost Damage by Island (MHHW) Scour Current (Table 7-3a)
- Estimate of Asset Cost Damage by Island (100-year Flood) Scour Current (Table 7-3b)
- Estimate of Asset Cost Damage and Repair Times Mean Higher High Water (MHHW) 2050 (Table 7-4a)
- Estimate Summary of Asset Cost Damage by Island Mean Higher High Water (MHHW) – 2050 (Table 7-4b)



- Estimate of Asset Cost Damage and Repair Times 100-year Flood 2050 (Table 7-5a)
- Estimate Summary of Asset Cost Damage by Island 100-year Flood 2050 (Table 7-5b)
- Estimate of Asset Cost Damage by Island (MHHW) Scour 2050 (Table 7-6a)
- Estimate of Asset Cost Damage by Island (100-year Flood) Scour 2050 (Table 7-6b)

Scour due to levee breaching is included in the inundation events (i.e., scour of levee is followed by inundation/flooding of an island). The potential scour zones for the Delta islands are shown on Figure 4-2 together with the MHHW and 100-year flood plain limits. This figure indicates the areas around the island perimeters that would be potentially vulnerable to scour damage. Scour holes (2000 feet long x 500 feet wide) could occur anywhere within the island perimeters shown on Figure 4-2.

As stated in Section 4.5, an asset within a scour hole is considered to be destroyed and, therefore, the repair cost is equal to its replacement cost. These repair costs are treated as incremental or differential costs that are added to the total cost of repair without scour to obtain the total cost of repair. Thus, the repair cost within a scour zone is equal to the difference between the total replacement cost and the inundation repair cost. The total cost of repair with scour represents the total cost of repair of the assets. The repair costs due to scour in a 100-year flood event would be less than the scour repair costs for an MHHW event because the *inundation* repair costs for the former event account for a greater proportion of the total repair costs than would the latter event.

As described in Section 4, the above asset tables were prepared for up to five island failures. Multiple island failures have been addressed; longer response and repair times and greater costs would result from multiple island failures. To account for multiple island failures, the linear cost and repair time scaling factors in Table 7-7 would be applied to the data in the above asset tables.

Table 7-7 Cost and Repair Time Scaling Factors for Multiple Island Failures

Number of Island Failures	Cost Scaling Factors ^a	Repair Time Scaling Factors ^a (for point assets ^b)
1 to 5	1.0	1.0
10	1.2	1.4
20	1.6	2.2
30	2.0	3.0

^a The cost and repair time scaling factors are applied to more than five island failures.

^b See Section 4.4.2 for estimated repair times for linear assets in multiple island failures.

7.2 Summary

The total estimated replacement costs for infrastructure assets within the Delta are summarized in Table 7-8 for the current (2005) and 2050 conditions, for MHHW and 100 year inundation levels. This table accounts for infrastructure assets that could be damaged as a result of levee breaching and island flooding (see Section 1.2). The costs are based on the results presented in Tables 7-1, 7-2, 7-4 and 7-5.

Table 7-8 Comparison of Total Replacement Costs of Delta Infrastructure Current and 2050^a

Inundation Level	Current (2005) ^c	2050	Cost Ratio: 2050/Current
Within Mean Higher High Water (MHHW) Limits ^b	\$6.7 billion	\$8.5 billion ^e	1.3
Within 100-year Flood Limits b,c	\$56.3 billion	\$67.1 billion ^e	1.2

^a Costs in this table are for infrastructure assets and their contents that could be damaged as a result of levee breaching and island flooding.

As indicated in Table 7-8, the total replacement cost of assets within the 100-year flood limits significantly exceeds (about 8 times) these costs for assets within the MHHW limits. The reason for this large difference is explained by referring to Figure 4-1. This figure shows that the 100-year flood event has the potential to inundate major urban areas such as Sacramento and Stockton that have a large inventory of infrastructure assets. However, the MHHW limits do not extend to these large urban areas. Smaller towns and rural/agricultural areas mainly fall within the MHHW limits. The largest differences between damages for the 100-year flood event and other events would be for infrastructure that is located near the edge of the floodplain in urban areas (areas with topographic relief).

Table 7-8 also indicates that over the next 50 years, the total replacement cost of assets could increase by about 20 to 30 percent within the MHHW limits and the 100-year flood plain limits. Likewise, the overall damage repair costs of assets as a result of levee failure are also expected to increase over the next 50 years due to the (1) increase in the amount of infrastructure assets as a result of population growth, (2) Delta water level rise due to climate change, and corresponding increase in MHHW and 100-year flood levels, and (3) decrease in island elevation levels due to subsidence. The increase in water levels, coupled with the decreasing island elevations, would increase the amount of inundation of Delta assets in the future. The damage would therefore increase, resulting in greater future repair costs and repair times.

The repair costs for infrastructure assets will be based on the number of island failures and resulting inundation, and the repair costs will vary from island to island. For both current and 2050 conditions, the overall results of the repair and replacement costs presented in the asset tables indicate that the repair costs due to inundation could be on

^b See Section 4.1.2 and Figure 4-1 for limits of inundation.

^c Flood plain limits were developed from FEMA Flood Insurance Rate Maps.

^d Costs are in 2005 dollars.

^e Costs are in 2005 dollars; not escalated to 2050.

the order of 30 percent (for MHHW) and 50 percent (for the 100-year food) of the asset replacement costs, considering all Delta islands and tracts.

7.3 Limitations

As stated in Section 1.2, we consider damage to infrastructure assets that could result from levee breaching and island flooding. Infrastructure assets that would not be damaged by levee failure (e.g., pumping plants and power plants) are beyond the scope of the TM.

As stated in Section 3, because some asset types lack attribute information, it was not always possible to estimate asset costs from the GIS data. In these cases, there is insufficient definition of quantitative attributes to evaluate reliable replacement and repair costs and assumptions had to be made so that damage loss could be estimated. Also, some assets were not available in the GIS database. Further characterization of the Delta infrastructure assets would reduce the uncertainty in the damage estimates.

Because of the lack of information on repair times (due to the absence of historic experience), especially for multi-island failures, judgment was used to estimate repair times.

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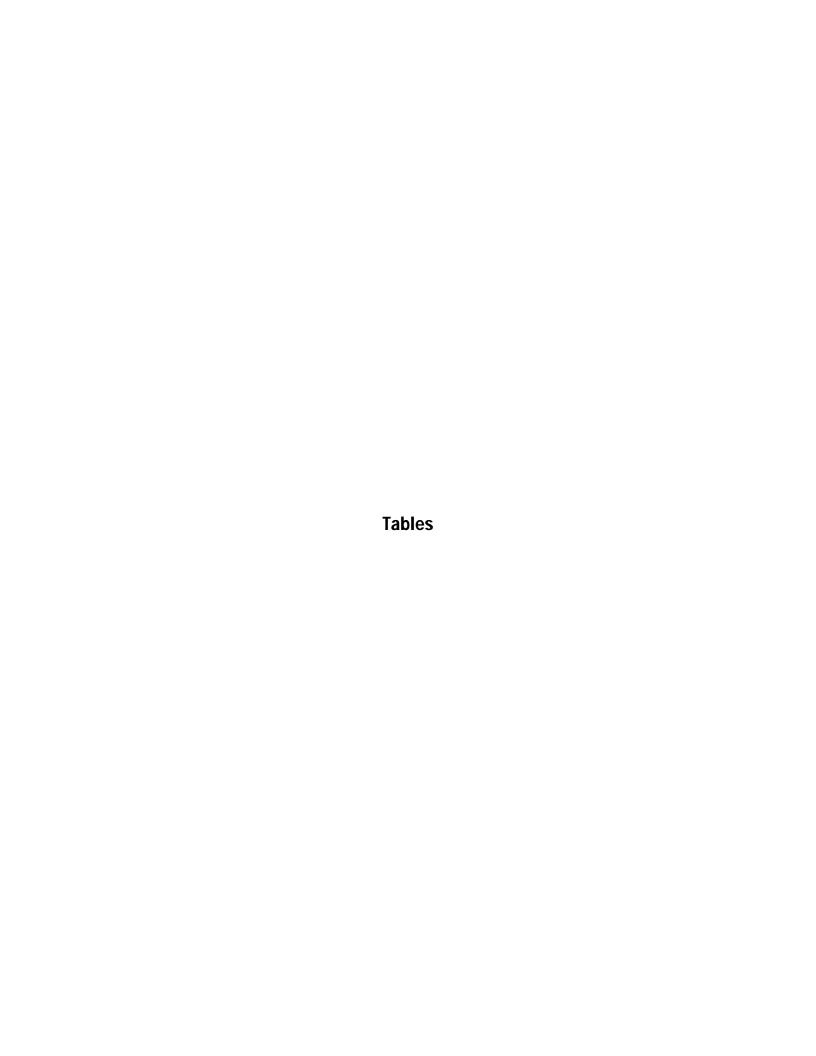


Table 7-1a: Estimate of Asset Cost Damage and Repair Times- Mean Higher High Water - (MHHW)

1 island Name Bacon_Island	2 Asset Type	3	4				Total Inundation			
	Asset Type		GIS Quantity	Avg Inundation	Percent	Total Asset Value (Structure + Contents)	Repair Costs (Structure + Contents + Debris)	Per Island Inundation Repair Costs	Per Island Asset Value	Repair Time (Months)
Bacon_island		Inventory Unit	(current)	Depth (ft)	Damage	(\$1,000)	(\$1000)	(\$1000)	(\$1000)	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,654	18		7,531	2,071	i l	1 1	
	NG_Pipelines_DWR	Length (ft)	28,288	18		8,628	0	i l	i I	
	PBSJ_Gas_Oil_Wells	Count	8	18		0	0		i I	
	Residential - Institutional Dormitory	Count	5	18	100.0	27,758	29,515	31,586	43,916	2
Bethel_Island	Boatlaunch	Count	3	0		300	0	i l	1 1	(
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	157,050	10		31,410	8,638	i !	į [
	NG_Pipelines_DWR	Length (ft)	23,383	10		4,443	0			1
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	722	10	0.0	0	0		i]	
	PBSJ_Gas_Oil_Wells	Count	24	8	-	0			1	(
	Residential - Duplex	Count	7	10	49.5	3,468	2,073		1	24
	Residential - Manufactured Housing	Count	451	10	100.0	23,078	23,947			24
	Residential - Single Family Dwelling	Count	693	10	48.6	190,205	112,458		i I	23
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	13	100.0	1,215	1,292		1	24
	Solid_Waste_Facilities	Count	1	0	0.0	0	0	1	i I	
	Utilities_ESRI	Count	1	6		0				
	water_trans	Count	2	6	0.0	0	0	148,408	254,118	(
Bishop_Tract	Boatlaunch	Count	1	0	0.0	100	0			(
	Delta Roads PBSJ Minor Roads	Length (ft)	38,810	7	25.0	7,762	2,135		i I	(
	PBSJ Gas Oil Wells	Count	1	0	-	0	0		i I	(
	PBSJ Substation	Count	1	0	0.0	1,000	0		i 1	
	Residential - Single Family Dwelling	Count	5	7	39.1	1,499	719		ı	19
	Transmission Line	Length (ft)	32,039	7	-	7,888	0	2,853	18,249	
Bixler_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	150	2	25.0	30	8			
	PBSJ Gas Oil Production Fields	Area (Acres)	81	2	0.0	0	Ö		i i	(
	PBSJ Gas Oil Wells	Count	3	0		0	0		i j	(
	Residential - Single Family Dwelling	Count	2	2	20.8	606	146	155	636	10
Bouldin Island	air trans	Count	1	19		0	0			(
	Commercial- Professional/ Technical Services	Count	1	20		7,584	8,342		i l	18
	Commercial- Retail Trade	Count	1 1	20		1,188	1,307		i i	18
	Delta_Roads_PBSJ_Major Roads	Length (ft)	1,505	20		497	137		i i	
	Delta Roads PBSJ Minor Roads	Length (ft)	43,282	20		8,656	2,381	1	i •	
	Hwy HAZUS SDURS	Length (ft)	24,159	20		7,972	2,192		į l	
	PBSJ Gas Oil Production Fields	Area (Acres)	103	20		7,072	2,702		i	· · · · · · · ·
	PBSJ Gas Oil Wells	Count	17	19		- 	ö	i !		
	Utilities ESRI	Count	1 1	10		0	- 0	14,359	25,897	
Brack_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	31,811	12		6,362	1,750	14,000	20,007	
	NG Pipelines DWR	Length (ft)	23,403	12		5,383	1,730	, ,	į I	
	PBSJ Gas Oil Wells	Count	19	11	0.0	0,363		1	j i	
	Residential - Manufactured Housing	Count	19	12	100.0	399	414	, ,	j	24
	Residential - Nandlactured Housing Residential - Single Family Dwelling	Count	1 3	12		627	667	2,830	12,771	2.
Bradford Island	Delta Roads PBSJ Minor Roads		67.000	12				∠,630	14,111	24
Diaululu_isiafid		Length (ft)	57,920			11,584	3,186		į I	
	NG_Pipelines_DWR PBSJ Gas Oil Production Fields	Length (ft) Area (Acres)	7,466 896	14 14		2,165 0	0			

	Innat a los Will	Io	16	401		<u> </u>	n]	-1		
	PBSJ_Gas_Oil_Wells	Count	16	13	100.0	010	233			24
	Residential - Duplex	Count		14		219				24
	Residential - Manufactured Housing	Count	9	14	100.0	444	461	44 554	04 600	
	Residential - Single Family Dwelling	Count	27	14	100.0	7,218	7,675	11,554	21,630	24
Brannan-Andrus Island	air_trans	Count	1	0		0	0			
	Boatlaunch	Count	8	3	100.0	800	880			(
	Commercial - Entertainment and Recreation	Count	1	18	100.0	2,992	3,291			(
	Commercial- Professional/ Technical Services	Count	1	18	100.0	7,632	8,395			18
	Commercial- Retail Trade	Count	11	18	100.0	5,476	6,024	1		18
	Delta_Roads_PBSJ_Major Roads	Length (ft)	28,339	18	25.0	8,502	2,338			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	264,098	18	25.0	52,820	14,525			
	hc_hospitals	Count	1	Ó	0.0	0	0			(
	Hwy Bridge HAZUS SDURS	Length (ft)	2	2	0.0	4,000	0			1
	Hwy HAZUS SDURS	Length (ft)	55,612	18	25.0	18,352	5,047			
	NG Pipelines DWR	Length (ft)	75,805	18	0.0	17,814	0			. (
	NG Wells DWR Not in PBSJ	Count	2	25	-	0	0			(
	PBSJ Gas Oil Production Fields	Area (Acres)	9,088	18	0.0	0	0	1		(
	PBSJ Gas Oil Wells	Count	157	13	-1	0	0	l		(
	Residential - Duplex	Count	6	18	100.0	3,909	4,157	l		24
	Residential - Manufactured Housing	Count	297	18	100.0	15,386	15,965	j		24
	Residential - Multi-Dwellings - 5 to 9 units	Count	<u> </u>	18	100.0	3,579	3,806	l		24
	Residential - Single Family Dwelling	Count	305	18	100.0	65,780	69,946	j		24
	Residential - Triplex-Quads	Count	33	18	100.0	3,129	3,327	ļ		2
	Residential- Multi- Dwellings- 10 to 19 units	Count	- -	18	100.0	702	612	1		18
	Solid Waste Facilities	Count	- -	15	25.0	702	012	1		
	Transmission Line		19,080	18	20.0	4,698	0			
		Length (ft)	19,000	6	0.0	4,080	0	138,312	215,569	
	water_trans	Count	4		0.0	0		130,312	210,009	
Browns_Island	Hazmat HAZUS SDURS	Count	- 2	0	0.0	0	0		0	
	Solid_Waste _Facilities	Count	1	0		0	0	0		
Byron_Tract 1	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	18,586	10	25.0	3,717	1,022			
	Hwy_HAZUS_SDURS	Length (ft)	5,458	10	25.0	1,801	495	1		
	PBSJ_Gas_Oil_Wells	Count	2	0		0	0	1		
	Residential - Manufactured Housing	Count	2	10	100.0	138	143			24
	Residential - Single Family Dwelling	Count	9	10	48.6	2,103	1,243	1		2:
	Sewage_Treat	Count	1	12	15.0	100,000	16,500	1		
	Transmission Line	Length (ft)	29,816	10	- 1	9,600	0	19,404	117,359	1
Byron_Tract 2	bridges_not_in_HAZUS	Count	5	2	0.0	5,000	0			
	Commercial- Professional/ Technical Services	Count	1	5	35.0	946	583			1:
	Commercial- Retail Trade	Count	1	5	20.0	204	109			
	Delta Roads PBSJ Minor Roads	Length (ft)	12,532	5	25.0	2,506	689			
	Residential - Manufactured Housing	Count	2	5	100.0	95	96	į		24
	Residential - Single Family Dwelling	Count	16	5	32.6	4,956	1,960			16
	Transmission Line	Length (ft)	25,356	5		8,164	0	3,436	21,871	
Cache_Haas_Tract 1	Delta Roads PBSJ Minor Roads	Length (ft)	79,381		25.0	15,876	4,366	-,		
	NG Pipelines DWR	Length (ft)	5,755		0.0	1,094	7,000			
	PBSJ Gas Oil Production Fields	Area (Acres)	1,149	2	0.0	1,034	ő	1		
	PBSJ Gas Oil Production Fields	Count	1,149		0.0	0				
	Residential - Single Family Dwelling	Count	10	¦ -	20.8	174	42	Į		1
	Transmission Line		13,005		20.0	4,187	42	4,408	21,331	11
Onella Hana Tarak C		Length (ft)		- 4	25.0		<u></u>	4,408	۷۱,۵۵۱	
Cache_Haas_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,202	3	25.0	1,840	506	I		
	Hwy_HAZUS_SDURS	Length (ft)	2,391	3	25.0	789	217	I		
•	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	602	3	0.0	0	0	ŀ		
	PBSJ_Gas_Oil_Wells	Count	20	4		0				
	Residential - Manufactured Housing	Count	1	3	100.0	30	29	į		2
	Residential - Single Family Dwelling	Count	5	3	25.8	1,373	415			1:
	Transmission Line	Length (ft)	567	3	T	183	Ó	1,167	4,215	(
Canal Ranch	Commercial- Professional/ Technical Services	Count	1	9	44.0	2,862	1,952			1

,		T				4.000	4 400		1	
	Commercial- Retail Trade	Count	1 1	9	30.0	1,878	1,136			11
	Delta Roads_PBSJ_Minor_Roads	Length (ft)	17,180	9	25.0	3,436	945			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)		0	0.0	2,000	0			0
	NG_Pipelines_DWR	Length (ft)	1,065	9	0.0	202	0			<u>C</u>
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	296	9	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	11	11	<u>-</u> .	0	0			
	Residential - Manufactured Housing	Count	3	9	100.0	167	172			24
	Residential - Single Family Dwelling	Count	1	9	43.6	263	142	4,347	10,807	21
Chipps_Island	PBSJ_Gas_Oil_Wells	Count	2	2	-1	0	0	0	0	C
Clifton Court Forebay Water	Boatlaunch	Count	1	0	0.0	100	0			C
	Commercial- Professional/ Technical Services	Count	1	13	100.0	384	380			18
	Commercial- Retail Trade	Count	1	13	47.0	84	59			17
	Residential - Single Family Dwelling	Count	2	0	12.5	504	65	ı		6
	Transmission Line	Length (ft)	9,733	0	-	3,134	0	504	4,206	
Coney_Island	Residential - Manufactured Housing	Count	10	10	100.0	507	526			24
	Residential - Single Family Dwelling	Count	66	10	48.6	21,414	12,661	13,187	21,921	23
Deadhorse Island	NG Pipelines DWR	Length (ft)	3,862	11	0.0	734	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	210	11	0.0	0	0	1		(
	PBSJ_Gas_Oil_Wells	Count	3	9	-1	0	0	1		Ċ
	Residential - Single Family Dwelling	Count	1	- 11	48.6	255	151	1		23
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	11	49.5	9	.5	156	998	24
Decker Island	NG Pipelines DWR	Length (ft)	8,084	2	0.0	1,536	0	0	1,536	
Egbert_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	56,448	6	25.0	11,290	3,105			6
	NG Pipelines DWR	Length (ft)	23,269	6	0.0	5,585	0,100	ŀ		C
	NG Wells DWR Not in PBSJ	Count	3	3		0	0	1		C
	PBSJ Gas Oil Production Fields	Area (Acres)	2,019	6	0.0	0	0	l l		(
	PBSJ Gas Oil Wells	Count	67	4	-	ō	0			C
	Residential - Manufactured Housing	Count	i	6	100.0	39	40			24
	Residential - Single Family Dwelling	Count	7	6	32.6	1,815	718	I		16
	Transmission Line	Length (ft)	6,914	6		2,226	0	3,862	20,954	0
Elk Grove 1	Hwy HAZUS SDURS	Length (ft)	763	3	25.0	252	69	69	252	. 3
Empire_Tract	Boatlaunch	Count	1	22	100.0	100	110	- "		
Empire_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	44,263	21	25.0	8,853	2,434			6
	PBSJ Gas Oil Wells	Count	5	18	20.0	0,000	2,707	ŀ		
	Residential - Manufactured Housing	Count	6	21	100.0	326	338			24
	Residential - Single Family Dwelling	Count	3	21	100.0	512	544	3,426	9,790	24
Fabian Tract	Boatlaunch	Count	1	0	0.0	100	0	0,720	0,100	
Fabiati_11act	Commercial- Retail Trade	Count		<u> </u>	16.0	298	144			
	Delta Roads PBSJ Minor Roads	Length (ft)	44,960	4	25.0	8,992	2,473			6
	NG Pipelines DWR	Length (ft)	1,817	- ;	0.0	345	2,473	l		
	PBSJ Gas Oil Wells	Count	1,017	3	- 0.0	345	~	j		
	Residential - Duplex	Count	3	4	25.5	1,124	363	1		12
	Residential - Institutional Dormitory	Count	2	- 4	14.0	8,421	2,007	l		12
	Residential - Institutional Dormitory Residential - Manufactured Housing	Count	10		100.0	518	512	l		24
	Residential - Manufactured Housing Residential - Single Family Dwelling	Count	16		25.8	3,314	1.075			12
	Transmission Line		24,537	4	25.6	6.041	1,075	6,574	29,152	12
For Johns		Length (ft)		- 1	25.0		6			
Fay Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	112	9		22		6	22	
Glanville_Tract	Delta_Roads_PBSJ_Major Roads	Length (ft)	7,873	3	25.0	2,598	714			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,303	3	25.0	1,061	292	I		6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	<u> </u>	8	0.0	2,000	0			(
	PBSJ Gas Oil Production Fields	Area (Acres)	88	3	0.0	0	0			(
	PBSJ_Gas_Oil_Wells	Count	10	3		0	0	I		(
	Residential - Manufactured Housing	Count		3	100.0	35	33			24
	Residential - Single Family Dwelling	Count	3	3	25.8	521	157			12
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	3	25.5	17	5	1,202	6,230	12
Grand Island	Agriculture	Count	1	13	100.0	8,486	8,028	I		18
	Boatlaunch	Count		0	0.0	100	0			0

	O	Io		401	27.0	4.004	047			
	Commercial - Banks	Count		13	37.0	1,084	817	- 1		10
	Commercial- Professional/ Technical Services	Count		19	100.0	6,378	7,016			18
	Commercial- Retail Trade	Count		19	100.0	6,638	7,302	1		18
	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,302	13	25.0	1,089	300	- 1		1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	169,392	13	25.0	33,878	9,317	1		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2	0	0.0	4,000	0	1		
	Hwy_HAZUS_SDURS	Length (ft)	75,585	13	25.0	24,943	6,859			
	Industrial - Light	Count	7	13	48.0	39,675	26,186			1
	NG_Pipelines_DWR	Length (ft)	11,589	13	0.0	2,202	0			
	NG_Wells_DWR_Not_in_PBSJ	Count	1	10	-	0	0			
	PBSJ_Cell_Towers	Count	1	0	-	250	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2,815	13	0.0	Ö	0			
	PBSJ Gas Oil Wells	Count	96	12	-	0	0	l l		
	PBSJ Substation	Count	1	16	25.0	1,000	275			ii
	Residential - Duplex	Count	5	13	100.0	2,526	2,686	1		2
	Residential - Institutional Dormitory	Count	1	13	38.0	5,649	3,049			1
	Residential - Manufactured Housing	Count	39	13	100.0	2.070	2,148			2
	Residential - Single Family Dwelling	Count	366	13	100.0	97,205	103,361			24
	Residential- Multi- Dwellings- 10 to 19 units	Count		19	100.0	3,597	3,825	. [2
	Schools HAZUS SDURS	Count		15	45.0	1.180	837			11
	Transmission Line	Length (ft)	48.859	13	70.0	12.030	.0	182,004	253.980	
Jactines Treat 4			40,009	19				102,004	200,800	
Hastings_Tract 1	Commercial- Retail Trade	Count	1 1	- 1	1.0 0.0	6	0	اہ	^	
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	46	1		0	0	0	6	
Hastings_Tract 2	Commercial- Retail Trade	Count	1	4	16.0	162	76			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	27,793	4	25.0	5,559	1,529			
•	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	464	4	0.0	0	0			1
	PBSJ_Gas_Oil_Wells	Count	37	3	-	0	0			1
	Residential - Manufactured Housing	Count	1	4	100.0	59	57			2
	Residential - Single Family Dwelling	Count	10	4	25.8	2,700	817			1:
	Transmission Line	Length (ft)	11,505	4	-	3,704	0	2,478	12,183	(
Holland_Land	Hwy_HAZUS_SDURS	Length (ft)	68,170	3	25.0	22,496	6,186	6,186	22,496	
Holland Tract	Delta Roads PBSJ Minor Roads	Length (ft)	52,160	14	25.0	10,432	2.869			
_	Hwy Bridge HAZUS SDURS	Length (ft)	1	8	0.0	2,000	0			
	PBSJ Gas Oil Wells	Count	11	12	-	0	0			
	Residential - Manufactured Housing	Count	4	14	100.0	192	199			2
	Residential - Single Family Dwelling	Count	12	14	100.0	3,164	3,364	6,432	15,787	2.
Honker Bay Club	NG Pipelines DWR	Length (ft)	4,395	3	0.0	835	0	5,1.52	,	
	PBSJ Gas Oil Production Fields	Area (Acres)	46	3	0.0	000	0			
	Petr Pipelines DWR	Length (ft)	4,803	3	0.0	1.009	0			
	Residential - Single Family Dwelling	Count	4,003	3	20.8	267	65	65	2.111	1
Josephine Trees d								00	2,111	· ·
lotchkiss_Tract 1	Boatlaunch	Count		5	100.0	100	110	i		
	Commercial- Professional/ Technical Services	Count		10	47.0	3,026	2,114			1
	Commercial- Retail Trade	Count		10	34.0	654	410			1.
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	53,990	6	25.0	10,798	2,969	ļ		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	0	0.0	2,000	0			
	NG_Pipelines_DWR	Length (ft)	21,048	6	0.0	3,999	0	ŀ		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	846	6	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	25	5	-	0	0	1		
	Residential - Duplex	Count	6	6	38.5	2,478	1,134	1		1
	Residential - Manufactured Housing	Count	95	6	100.0	5,007	5,104	1		
	Residential - Single Family Dwelling	Count	299	6	37.0	81,743	36,506	- 1		1
	Residential - Triplex-Quads	Count	2	6	38.5	926	424	1		1
	Transmission Line	Length (ft)	45,599	6	-1	14,681	0	48,771	125,411	
lotchkiss_Tract 2	Delta Roads PBSJ Minor Roads	Length (ft)	3,345	6	25.0	669	184			
-	NG Pipelines DWR	Length (ft)	2,370	6	0.0	450	0			
	PBSJ Gas Oil Production Fields	Area (Acres)		6	0.0		ő			
	IFDOJ GAS ON PIOGOGNON FIRMOS		172		1111	01				

Jersey Island	Delta Roads PBSJ Minor Roads	Length (ft)	37,573	14	25.0	7,515	2.067	1		6
oersey_isiana	NG Pipelines DWR	Length (ft)	11,881	14	0.0	7,426	2,001			0
	PBSJ Gas Oil Production Fields	Area (Acres)	630	14	0.0	7,720	ŏ			0
	PBSJ Gas Oil Wells	Count	15	11		ő	ő			0
	Residential - Manufactured Housing	Count	1 1	14	100.0	65	67			24
	Residential - Single Family Dwelling	Count	4	14	100.0	1,065	1,132			24
	Solid Waste Facilities	Count	- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 	20	25.0	1,000	1,102			0
	Transmission Line	Length (ft)	26,539	14	20.0	8,545	- 0	3,266	24.614	0
Jones Tract-Upper and Lo		Count	20,339	0	0.0	1,000	0	3,200	24,014	0
Jones_Tract-opper_and_ct	Commercial- Professional/ Technical Services	Count		18	100.0	478	526	i		18
	Commercial- Professional/ Technical Services	Count		18	100.0	88	97	i		18
	Delta Roads PBSJ Minor Roads		122,829	14	25.0	24,566	6,756			6
		Length (ft)	27.507	14	0.0	5,776	0,750			0
	gas pipeline kinder morgan LS 9	Length (ft)	27,307	12	0.0	2.000				0
	Hwy Bridge HAZUS SDURS	Length (ft)	45,000		0.0					
	NG_Pipelines_DWR	Length (ft)	15,032	14		24,202	<u>'</u>			0
	NG_Storage	Count		0	0.0			l l		*
	PBSJ_Cell_Towers	Count	7 2 2			500	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	7,820	14	0.0	0	0	i i		
	PBSJ_Gas_Oil_Wells	Count	6,859	15		0	0	I		0
	PBSJ_Mokelumne_Aqueduct	Length (ft)	82,207	14		411,035	34,363			1
	Rail_Bridge_HAZUS_SDURS	Count		9	100.0	1,000	0	i		1
	Rail_HAZUS_SDURS	Length (ft)	28,472	5	100.0	8,115	8,800			1
	Residential - Duplex	Count	2	2	15.5	872	155	i		
	Residential - Institutional Dormitory	Count	4	16	47.0	25,881	15,924			23
	Residential - Manufactured Housing	Count	9	14	100.0	401	416			24
	Residential - Single Family Dwelling	Count	13	14	100.0	2,561	2,723	69,757	508,474	24
King_lsland	Boatlaunch	Count	1	14	100.0	100	110			0
	Commercial - Entertainment and Recreation	Count	1	15	45.0	1,772	1,413			0
	Commercial- Professional/ Technical Services	Count	1	15	100.0	1,866	2,053			18
	Commercial- Retail Trade	Count	1	15	100.0	13,544	14,898			18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	44,571	15	25.0	8,914	2,451	ŀ		6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2	14	0.0	4,000	0	i i		C
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	178	15	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	10	14	-	0	0	į.		0
	Residential - Duplex	Count	1	15	100.0	281	298			24
	Residential - Institutional Dormitory	Count	. 1	15	42.0	5,334	3,067			20
	Residential - Manufactured Housing	Count	63	15	100.0	3,200	3,320			24
	Residential - Single Family Dwelling	Count	25	15	100.0	5,039	5,358			24
	water trans	Count	1	20	0.0	0	0	32,968	44,049	
Libby_McNeil_Tract 1	Commercial- Professional/ Technical Services	Count	1	4	22.0	1,110	556			8
	Commercial- Retail Trade	Count	1	4	16.0	1,336	625	1		6
	Communication HAZUS SDURS	Count	- 	Ö	0.0	118	0			(
	Delta Roads PBSJ Major Roads	Length (ft)	5,110	4	25.0	1,686	464			6
	Delta Roads PBSJ Minor Roads	Length (ft)	10,178	4	25.0	2,036	560			
	PBSJ Gas Oil Production Fields	Area (Acres)	145	4	0.0	- 0	Ó			
	PBSJ Gas Oil Wells	Count	1 77	2		ő	<u></u>	ŀ		
	Residential - Duplex	Count	4	4	25.5	1,746	525			12
	Residential - Manufactured Housing	Count	 	- 	100.0	122	119			24
	Residential - Single Family Dwelling	Count	41	4	25.8	11,106	3,360	6,207	19,259	12
Libby_McNeil_Tract 2	Boatlaunch	Count	71	0	0.0	100	3,300	0,207	10,200	(
FINNY_MOREH_HACLE	Commercial- Retail Trade	Count	- 		1.0	100	0	l		
	Delta Roads PBSJ Minor Roads		345		25.0	69	19	I		
	PBSJ Gas Oil Production Fields	Length (ft)		}	0.0	69	19	ŀ		
		Area (Acres)	43	1	12.5	4.000		450	4 000	`
354-1-1	Residential - Single Family Dwelling	Count	4	1		1,032	132	152	1,203	6
Liberte Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	35,789	1	25.0	7,158	1,968			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	1	0.0	2,000	0	j		0
	NG_Pipelines_DWR	Length (ft)	28,636	1	0.0	5,441	0			0

1	IDDC I Con Oil Broduction Fields	TAxaa (Aaraa)	7401		0.0	al				
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	743	- 1	0.0	0	0	4 000	44.500	0
	PBSJ_Gas_Oil_Wells	Count	23	1				1,968	14,599	0
Lincoln_Village_Tract	Hwy_HAZUS_SDURS	Length (ft)	56,501	11	25.0	18,645	5,127			3
	Residential - Single Family Dwelling	Count	1	0	12.5	234	30			6
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	11	100.0	17	18			24
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	11	100.0	6	6	5,181	18,902	24
Lisbon_District	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,001	3	25.0	1,000	275			6
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	126	3	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	8	2		0	0			0
	Rail_HAZUS_SDURS	Length (ft)	9,382	3	25.0	2,674	735			1
	Residential - Duplex	Count	1	3	25,5	119	36			12
	Residential - Single Family Dwelling	Count	21	3	25.8	5,736	1,735			12
	Residential- Multi- Dwellings- 10 to 19 units	Count	11	3	25.5	182	55			12
	Transmission Line	Length (ft)	7,609	3		1,873	0	2,836	11,583	0
Little Holland Tract	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	88	1	0.0	0	0			. 0
	PBSJ_Gas_Oil_Wells	Count	2	1	-	0	0	0	0	0
Little_Egbert□_Tract	Delta_Roads_PB\$J_Minor_Roads	Length (ft)	16,690	10	25.0	3,338	918			6
	Hwy_HAZUS_SDURS	Length (ft)	316	10	25.0	104	29	1		3
	NG_Pipelines_DWR	Length (ft)	10,821	10	0.0	2,597	0	1		. 0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	652	10	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	24	10	-	0	0			0
	Residential - Manufactured Housing	Count	1	10	100.0	27	28	1		24
	Residential - Single Family Dwelling	Count	5	10	48.6	1,224	724	1,698	7,290	23
Lower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	4,657	6	25.0	931	256			6
	PBSJ_Gas_Oil_Wells	Count	1	0	-	0	0			0
	Residential - Manufactured Housing	Count	1	6	100.0	30	31			24
	Residential - Single Family Dwelling	Count	1	6	37.0	188	84	370	1,149	18
Mandeville_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,062	20	25.0	5,212	1,433			6
	PBSJ_Gas_Oil_Wells	Count	10	23	-	0	0	1,433	5,212	0
McCormack_Williamson_Tra	C Communication HAZUS SDURS	Count	2	0	0.0	236	0			0
	Delta Roads PBSJ Minor Roads	Length (ft)	9,930	3	25.0	1,986	546	l		6
	NG_Pipelines_DWR	Length (ft)	4,699	3	0.0	893	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	884	3	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	18	3	-	0	. 0	546	3,115	0
McDonald_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	67,360	20	25.0	13,472	3,705		· · · · · · · · · · · · · · · · · · ·	6
_	NG Pipelines DWR	Length (ft)	20,905	20	0.0	6,376	0	l		0
	PBSJ Gas Oil Production Fields	Area (Acres)	2,056	20	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	105	15	-	o	0	ŀ		0
	Residential - Institutional Dormitory	Count	3	20	100.0	16,398	17,437	21,141	36,246	24
McMullin Ranch-River Junc	ti Hwy HAZUS SDURS	Length (ft)	23,053	4	25.0	7,607	2,092	2,092	7,607	3
Medford Island	Delta Roads PBSJ Minor Roads	Length (ft)	28,313	16	25.0	5,663	1,557			6
	Residential - Institutional Dormitory	Count	1	16	100.0	2,897	3,080	4,637	8,559	24
Merritt Island	Commercial- Professional/ Technical Services	Count		3	22.0	356	164	1,001	0,000	8
	Commercial- Retail Trade	Count		3	16.0	78	33			6
	Delta Roads PBSJ Major Roads	Length (ft)	2,454	3	25.0	810	223			6
	Delta Roads PBSJ Minor Roads	Length (ft)	37,786		25.0	7,557	2,078			6
	PBSJ Gas Oil Production Fields	Area (Acres)	70	3	0.0	7,337	2,070	l		0
	PBSJ Gas Oil Wells	Count	9			- 0	0	l		0
	Residential - Manufactured Housing	Count	- 	3	100.0	146	141	İ		24
	Residential - Single Family Dwelling	Count	40		25.8	10,787	3,263	l		12
	Residential- Multi- Dwellings- 10 to 19 units	Count	71	3	25.5	99	30	5.932	19.832	12
Middle_Roberts_Island	Boatlaunch	Count	3	16	100.0	300	330	0,832	10,002	0
	bridges not in HAZUS	Count	1 1	8	0.0	1.000	330	i		0
	Commercial - Personal and Repair Services	Count		9	32.0	1,000	755			12
	Commercial - Personal and Repair Services Commercial - Professional/ Technical Services	Count		13	100.0	716	709 709	l		12
	Commercial- Professional/ Technical Services	Count	- -	13	47.0	566	395	Į		18
	Dams_HAZUS_SDURS	Count		13	0.0			į		17
	Danie II/200_ODONO	COUR		11	0.0	0	0			1 0

l .	Delta Roads PBSJ Major Roads	Lenath (ft)	23,425	9	25.0	7,730	2,126	ı		6
	Delta Roads PBSJ Minor Roads	Length (ft)	288,290	ğ	25.0	57,658	15,856	ľ		6
	gas pipeline kinder morgan LS 9	Length (ft)	24.055	9	0.0	5,052	0.000	ľ		0
	Hwy Bridge HAZUS SDURS	Length (ft)	24,000	3	0.0	2,000	0			0
	NG Pipelines DWR	Length (ft)	59,509	9	0.0	11,307	0	l		0
	NG Wells DWR Not in PBSJ	Count	39,309	- 0	0.0	11,307	0			0
			7,820	9	0.0	0	0	I		0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)		9	0.0	0		I		0
	PBSJ_Gas_Oil_Wells	Count	6,859	9		330,544		I		0
	PBSJ_Mokelumne_Aqueduct	Length (ft)	66,109		0.0		- 6	l		0
	Petr_Pipelines_DWR	Length (ft)	9,151	12		1,922		l		0
1	Rail_HAZUS_SDURS	Length (ft)	27,701	9	25.0	7,895	2,171	l		1
	Residential - Duplex	Count	8	5	28.5	3,395	1,170	l		14
	Residential - Institutional Dormitory	Count	6	2	7.0	36,285	4,178	I		3
	Residential - Manufactured Housing	Count	37	9	100.0	1,889	1,953	I		24
	Residential - Single Family Dwelling	Count	135	8	39.1	31,622	15,171			19
	Schools_HAZUS_SDURS	Count		13	33.0	1,180	759	l		12
	Solid_Waste _Facilities	Count	1	1	0.0	0	0	I		0
	Transmission Line	Length (ft)	164,314	9	-1	40,456	0	45,573	542,741	0
Netherlands 2	air_trans	Count	1	0	-	0	0			0
	Commercial- Professional/ Technical Services	Count	1	3	22.0	276	138	* [8
	Commercial- Retail Trade	Count	1	3	16.0	1,354	633	i		6
	Delta_Roads_PBSJ_Major Roads	Length (ft)	12,559	3	25.0	4,144	1,140	į		6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	269,393	3	25.0	53,879	14,817			6
	Fire_Stations_HAZUS_SDURS	Count	1	0	0.0	1,770	0			0
	hc_ambulatory	Count	1	3	12.0	0	0			4
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	0	0.0	2,000	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	613	3	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	70	2	-	0	0	1		0
	Rail HAZUS SDURS	Length (ft)	2,051	3	25.0	584	161	1	•	1
	Residential - Institutional Dormitory	Count	1	3	14.0	6,960	1,506			7
	Residential - Manufactured Housing	Count	5	3	100.0	365	357			24
	Residential - Single Family Dwelling	Count	171	3	25.8	44,922	13,589			12
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	3	25.5	833	250			12
	Solid Waste Facilities	Count	2	0	0.0	0	0	32,590	117,086	0
New_Hope_Tract	Agriculture	Count	1	. 5	19.0	3,606	1,567			7
	Boatlaunch	Count	2	1	100.0	200	220		*	0
	Commercial- Professional/ Technical Services	Count	1	5	28.0	640	363			10
	Commercial- Retail Trade	Count	1	5	18.0	2,096	1,072			6
	Delta Roads PBSJ Major Roads	Length (ft)	13,318	5	25.0	4,395	1,209			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	49,541	5	25.0	9,908	2,725			6
1	Hwy Bridge HAZUS SDURS	Length (ft)	1	ő	0.0	2,000	0			0
1	NG Pipelines DWR	Length (ft)	30,822	5	0.0	5,856	o	i		0
l	PBSJ Cell Towers	Count	1 1	ŏ		250	0			ő
1	PBSJ Gas Oil Production Fields	Area (Acres)	1.678	5	0.0	0	0	l		0
	PBSJ Gas Oil Wells	Count	56	3		ő	0	I		0
	Residential - Manufactured Housing	Count	75	5	100.0	3,875	3,878	ŀ		24
1	Residential - Single Family Dwelling	Count	31	5	29.3	6,419	2,248	İ		14
1	water trans	Count	1 1	1	0.0	0,419	2,240	13,281	39,244	0
Orwood Tract	Commercial- Professional/ Technical Services	Count	 	16	100.0	740	814	.0,201	30,244	18
	Commercial- Retail Trade	Count	 	16	100.0	740 50	55	ŀ		18
	Delta Roads PBSJ Minor Roads	Lenath (ft)	24,362	12	25.0	4,872	1,340	ĺ		6
	gas pipeline kinder morgan LS 9	Length (ft)	14,840	12	0.0	3,116	1,340			0
	NG Pipelines DWR		6,497	12	0.0	1,819				0
	PBSJ Gas Oil Wells	Length (ft) Count	14,840	15	<u>U.U</u>	1,819	0	1		0
	PBSJ Gas Oil Wells PBSJ Mokelumne Aqueduct		40,546	12		202,729	16,948	l		U 4
		Length (ft)	40,046		100.0			Į.		24
	Residential - Manufactured Housing	Count		12 9		24 424	48			
	Residential - Single Family Dwelling	Count	83	91	46.6	31,421	17,725			22

	Transmission Line	Length (ft)	7,820	5	-1	2,518	0	36,930	247,312	
alm_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,441	14	25.0	4,888	1,344	T		
	NG_Pipelines_DWR	Length (ft)	27,094	14	0.0	7,586	0	1		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	101	14	0.0	0	0	1		
	PBSJ Gas Oil Wells	Count	3	14	-	0	0			
	Rail HAZUS SDURS	Length (ft)	12,632	.14	25.0	3,600	990			
	Residential - Manufactured Housing	Count	2	14	100.0	102	106			
	Residential - Single Family Dwelling	Count	13	14	100.0	4,263	4,533			
	Transmission Line	Length (ft)	6,595	14	-	2,123	0	6,973	22,563	
eter Pocket	Hwy HAZUS SDURS	Length (ft)	5,832	2	25.0	1,924	529			
ctci i donct	PBSJ Gas Oil Production Fields	Area (Acres)	510	8	0.0	0	0			
	PBSJ Gas Oil Wells	Count	5	0		0	ő			
	Residential - Single Family Dwelling	Count		2	16.4	372	68			
	Transmission Line	Length (ft)	865	2	- 10.1	279	0	598	2,575	
Sica Marias Treat	Commercial- Professional/ Technical Services	Count	- 1	2	16.0	140	45		2,0.0	
Pico_Naglee_Tract	Commercial- Retail Trade	Count			14.0	196	60			
			0.006		25.0	3.236	890			
	Delta_Roads_PBSJ_Major Roads	Length (ft)	9,806		25.0 25.0	4,306	1,184	ŀ		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	21,528	2			1,184			
	NG_Pipelines_DWR	Length (ft)	14,032	2	0.0	2,666	0	1		
	PBSJ_Gas_Oil_Wells	Count		- 2	400.0	474		l		
	Residential - Manufactured Housing	Count	4	2	100.0	174	159			
	Residential - Single Family Dwelling	Count	48	2	20.8	15,164	3,664			
	Transmission Line	Length (ft)	1,082	2		266	0			
	Utilities_ESRI	Count	1	. 0		0	0	6,002	26,148	
Pierson_Tract	Commercial - Personal and Repair Services	Count	2	8	25.0	3,140	1,813	ı		
	Commercial- Professional/ Technical Services	Count	1	8	41.0	2,206	1,468			
	Commercial- Retail Trade	Count	1	8	26.0	956	557	1		
	Communication HAZUS SDURS	Count	3	4	100.0	354	389			
	Delta Roads PBSJ Major Roads	Length (ft)	14,147	8	25.0	4,669	1,284	l		
	Delta Roads PBSJ Minor Roads	Length (ft)	87,600	8	25.0	17,520	4,818			
	Fire Stations HAZUS SDURS	Count	1	0	0.0	1,770	0			
	Hwy Bridge HAZUS SDURS	Length (ft)	2	0	0.0	4,000	Ó	1		
	PBSJ Gas Oil Production Fields	Área (Acres)	279	8	0.0	0	0	1		
	PBSJ Gas Oil Wells	Count	16	6		0	0			
	Residential - Duplex	Count	2	8	43.0	1,281	651	1		
	Residential - Manufactured Housing	Count	14	8	100.0	740	759			
	Residential - Single Family Dwelling	Count	129	8	39.1	26,844	12,879	1		
	Residential - Triplex-Quads	Count	120	8	43.0	491	249	1		
	Schools HAZUS SDÚRS	Count		ő	0.0	2.360	243			
	Transmission Line	Length (ft)	16,720	8		4,117	0	24,869	70,446	
7:44-4		<u> </u>	10,720		16.0			24,009	70,440	
Pittsburg	Commercial- Professional/ Technical Services	Count		2	16.0	88	28			
	Commercial- Retail Trade	Count	1 750	2	14.0	18	6			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	552	2	25.0	110	30	l		
	NG_Pipelines_DWR	Length (ft)	3,073	2	0.0	584	0	ļ		
	PBSJ_Substation	Count	1	1	25.0	1,000	275			
	Petr_Pipelines_DWR	Length (ft)	3,751	2	0.0	788	0			
	Ports_HAZUS_SDURS	Count	1	6	0.0	2,572	0	İ		
	Rail_HAZUS_SDURS	Length (ft)	10,239	2	25.0	2,918	802			
	Residential - Manufactured Housing	Count	1	2	100.0	44	40			
	Residential - Single Family Dwelling	Count	28	2	20.8	8,424	2,036			
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	2	22.5	686	174	ļ		
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	2	22.5	458	116	i		
	Transmission Line	Length (ft)	24,176	2		5,952	0	3,508	23,642	
Prospect Island	Delta Roads PBSJ Minor Roads	Length (ft)	5,398	3	25.0	1,080	297		-,	
	PBSJ Gas Oil Production Fields	Area (Acres)	301	3	0.0	0	0			
	PBSJ Gas Oil Wells	Count	11	- 1		0	- 			
	Residential - Single Family Dwelling	Count	2	3	20.8	707	171	į		
	rvesidential - Strigle Farmity Dwelling	Count		ું ગ	20.0	707	17.11	ı		

	Residential- Multi- Dwellings- 10 to 19 units	Count	1 1	3	22.5	2	0	468	1,788	1
Quimby Island	bridges not in HAZUS	Count	1	9	0.0	1,000	0			
	PBSJ Gas Oil Wells	Count	1	14	-	0	0			
	Residential - Single Family Dwelling	Count	1	16	100.0	126	134	134	1,126	2
Rindge_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	85,006	18	25.0	17,001	4,675			
3	PBSJ Cell Towers	Count	1	7	-	250	0		j	
	PBSJ Gas Oil Wells	Count	14	16	-	0	0	1		
	Residential - Duplex	Count	1	18	100.0	287	305			2
	Residential - Manufactured Housing	Count	2	18	100.0	132	137	1		2
	Residential - Single Family Dwelling	Count	4	18	100.0	846	900	6,017	18,516	2
Rio Blanco Tract	Delta Roads PBSJ Minor Roads	Length (ft)	2,927	6	25.0	585	161			
(IO_BIANCO_TTACE	Hwy Bridge HAZUS SDURS	Length (ft)	1	11	0.0	2,000	0			
	Hwy HAZUS SDURS	Length (ft)	495	6	25.0	163	45	1		
	PBSJ Gas Oil Production Fields	Area (Acres)	1 700	6	0.0	100	0			
	PBSJ Gas Oil Wells	Count	1 3	- 6		ŏ	ő	1		
	Transmission Line	Length (ft)	9,406	6		2,316	ő	206	5,065	
5-1			9,400		0.0	100	0	200	3,000	
Roberts_Island	Boatlaunch	Count	44,694	0 3	25.0	14,749	4.056	4,056	14,849	
	Hwy_HAZUS_SDURS	Length (ft)	44,694		20.0	14,749		4,056	14,049	
Rough_and_Ready_Island	air_trans	Count		0		0	0	ļ		
	Commercial - Entertainment and Recreation	Count	1 1	5	16.0	1,224	626	į		
	Commercial - Personal and Repair Services	Count		5	19.0	2,282	1,205	l		
	Commercial - Wholesale Trade	Count	3	5	16.0	11,204	5,731	ŀ		
	Commercial- Professional/ Technical Services	Count	1	5	35.0	452	278	ŀ		1
	Commercial- Retail Trade	Count	1	5	20.0	1,386	739			
	Delta_Roads_PBSJ_Major Roads	Length (ft)	8,041	5	25.0	2,654	730			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	63,660	5	25.0	12,732	3,501			
	Hazmat_HAZUS_SDURS	Count	3	0	-	0	0	ŀ		
	Industrial - Heavy	Count	1	5	22.0	3,808	1,726			
	PBSJ Gas Oil Wells	Count	1	4	-	0	0	l l		
	Petr Pipelines DWR	Length (ft)	11,907	5	0.0	2,501	0			
	Rail HAZUS SDURS	Length (ft)	28,932	5	25.0	8,246	2,268			
	Residential - Duplex	Count	3	5	32.0	912	356	l l		1
	Residential - Manufactured Housing	Count	8	5	100.0	422	427			2
	Residential - Single Family Dwelling	Count	13	5	32.6	2,693	1,065	18,652	50,513	1
Rver Island	Delta Roads PBSJ Major Roads	Length (ft)	1,851	11	25.0	611	168	.0,002		
vyer islanu	Delta Roads PBSJ Minor Roads	Length (ft)	116,873	11	25.0	23,375	6,428	l l		
	Hwy Bridge HAZUS SDURS	Length (ft)	110,073	- '	0.0	2,000	0,420			
	PBSJ Gas Oil Production Fields	Area (Acres)	412	11	0.0	2,000	- 6			
				. 8	0.0	0				*** *** ***
	PBSJ_Gas_Oil_Wells	Count	22		100.0	360	374	i		2
	Residential - Manufactured Housing	Count		11	100.0			04 500	40.005	
	Residential - Single Family Dwelling	Count	61	11	100.0	16,490	17,534	24,503	42,835	
Sargent_Barnhart_Tract 2	air_trans	Count		6		0	0			
	Commercial- Professional/ Technical Services	Count	1	8	44.0	8,908	6,075			
	Commercial- Retail Trade	Count		8	30.0	4,026	2,436			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	125,109	8	25.0	25,022	6,881			
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	6,859	8	0.0	1,440	0			
	hc_ambulatory	Count	20	8	20.0	0	0			
	hc_hospitals	Count		8	43.0	0	0	l		
	hc_nursing_res	Count	2	8	20.0	0	0			
	PBSJ_Mokelumne_Aqueduct	Length (ft)	20,301	8	0	101,504	0			
	PBSJ_Substation	Count	1	12	25.0	1,000	275			
	Residential - Institutional Dormitory	Count	1	8	18.0	5,612	1,823			
	Residential - Manufactured Housing	Count	10	8	100.0	795	816	i		
	Residential - Multi-Dwellings - 5 to 9 units	Count	5	8	43.0	15.809	8.034	l		
	Residential - Single Family Dwelling	Count	1,518	8	39.1	517,566	248,320	į		
	Residential - Triplex-Quads	Count	23	8	43.0	9,090	4,620	l		
	Residential - Multi- Dwellings- 10 to 19 units	Count	23	8	43.0	1,271	646	l		
	residential Multi- Dwellings- 10 to 19 tillis	Count		<u> </u>	43.0	1,2/1	040	ı		

	Residential- Multi- Dwellings- 20 to 49 units	Count	11	8	43.0	879	447	. 1		2
	Schools HAZUS SDURS	Count		8	13.0	1,180	617			
	Transmission Line	Length (ft)	10,183	8	10.0	2,507	0	280,988	696,608	
Second Beauty Treet 2		Count	10,100	- 0	1.0	6,458	249	200,000	555,555	
Sargent_Barnhart_Tract 3	Commercial - Entertainment and Recreation		- 	0	0.0	986	33			
	Commercial - Personal and Repair Services	Count Count		0	2.0	3.834	169			
	Commercial- Professional/ Technical Services		1	<u>0</u>	1.0	236	9			
	Commercial- Retail Trade	Count	1,225	0	0.0	245				
	Delta Roads PBSJ Minor Roads	Length (ft)	1,220	0	13.5	653	89	ļ		
	Residential - Multi-Dwellings - 5 to 9 units	Count	23	0	12.5	7,023	901			
	Residential - Single Family Dwelling	Count	23	- 0	13.5	210	28	1		
	Residential - Triplex-Quads	Count					10			
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	0	13.5 13.5	75 107	10	1,502	19,826	
	Residential- Multi- Dwellings- 20 to 49 units	Count		0				1,502	19,020	
Schafter-Pintail Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	12,297	6	25.0	2,459	676			
	PBSJ_Gas_Oil_Wells	Count	1	5		0	0	0.54		
	Residential - Single Family Dwelling	Count	2	6	37.0	621	277	954	3,080	1
Sherman_Island	Boatlaunch	Count	3	0	0.0	300	0			
	Commercial- Professional/ Technical Services	Count	1	16	100.0	276	304	ŀ		1
	Commercial- Retail Trade	Count	1]1]	16	100.0	960	1,056	l		1
	Delta_Roads_PBSJ_Major Roads	Length (ft)	1,521	16	25.0	502	138	l		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	87,989	16	25.0	17,598	4,839	i		
	Hwy_HAZUS_SDURS	Length (ft)	38,217	16	25.0	12,611	3,468			
	NG_Pipelines_DWR	Length (ft)	145,514	16	0.0	48,020	0			
	NG_Wells_DWR_Not_in_PBSJ	Count	1	15	-	0	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	1,082	16	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	60	13	-	0	0	- [
	Residential - Duplex	Count	1	16	100.0	645	686			2
	Residential - Manufactured Housing	Count	46	16	100.0	2,366	2,455	- 1		2
	Residential - Single Family Dwelling	Count	39	16	100.0	8,109	8,623	- 1		2
	Residential - Triplex-Quads	Count	1	16	100.0	485	515	1		2
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	16	100.0	113	120	1		2
	Transmission Line	Length (ft)	71,300	16	-	22,956	0	22,203	114,940	
Shima_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	4,998	7	25.0	1,000	275			
	Transmission Line	Length (ft)	24,926	7	-	6,137	0	275	7,137	
Shin_Kee_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	1,485	6	25.0	297	82			
	PBSJ Gas Oil Production Fields	Area (Acres)	1	6	0.0	0	0	l		
	PBSJ Gas Oil Wells	Count	2	2	-	0	0	1		
	Transmission Line	Length (ft)	2,073	6	-	510	0	82	807	
Simmons-Wheeler_Island	Residential - Single Family Dwelling	Count	1	2	20.8	252	61	61	252	1
SM-123	Delta Roads PBSJ Minor Roads	Length (ft)	6,618	1	25.0	1,324	364			
5HI-120	Hwy Bridge HAZUS SDURS	Length (ft)	3,515	3	0.0	2,000	0	l		
	Petr Pipelines DWR	Length (ft)	6		0.0	1		1		
	Residential - Single Family Dwelling	Count	- 	i l	12.5	180	23			
	Transmission Line	Length (ft)	312	- 1	- 12.0	77	0	387	3,582	
SM-124	Commercial- Professional/ Technical Services	Count			2.0	1.846	132	- 001	0,002	
SIVI-124	Commercial- Retail Trade	Count	 		1.0	1,306	86	l		
	Delta Roads PBSJ Major Roads	Length (ft)	724		25.0	239	66	ı		
	Delta Roads PBSJ Minor Roads	Length (ft)	9,144		25.0	1,829	503	ĺ		
	NG Pipelines DWR	Length (ft)	1,966		0.0	373	0			
	PBSJ Gas Oil Wells	Count	1,900		0.0	3/3	0			
	Petr Pipelines DWR		2,637		0.0	554	0	1		
		Length (ft)	2,637		0.0	587	0	1		
	Rail HAZUS SDURS	Length (ft)						1		
	Residential - Duplex	Count	9		13.5	4,358	591			
	Residential - Manufactured Housing	Count	2	1	11.0	75	10			
	Residential - Single Family Dwelling	Count	135	1	12.5	35,744	4,587			
	Residential - Triplex-Quads	Count	7]	1	13.5	3,320	450	l		
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	1	13.5	359	49	ı		

	Residential- Multi- Dwellings- 20 to 49 units	Count	41	- 1	13.5	39	5	i		6
	Sewage Treat	Count			0.0	175,000	Ö			0
	Transmission Line	Length (ft)	3,814	- 1		939	ő	6,480	226,566	0
SM-132	PBSJ Gas Oil Wells	Count	1	<u> </u>		0.00	ő	0,.00	220,000	0
3141-132	Residential - Single Family Dwelling	Count		6	37.0	263	117	117	263	18
SM-133	PBSJ Gas Oil Production Fields	Area (Acres)	204	2	0.0	0	0			0
3W-133	PBSJ Gas Oil Wells	Count	207	- 6		ő	ő	o	0	0
SM-134	PBSJ Gas Oil Production Fields	Area (Acres)	1	3	0.0	0	ő	<u>*</u>		0
01117	PBSJ Gas Oil Wells	Count	1 1	3		ŏ	<u></u>	o	0	0
SM-198	Delta Roads PBSJ Minor Roads	Length (ft)	662	6	25.0	132	36			6
OIN-130	NG Pipelines DWR	Length (ft)	4,303	6	0.0	818	0			0
	PBSJ Gas Oil Wells	Count	3	1		0	- 			0
	Petr_Pipelines_DWR	Length (ft)	5,048	6	0.0	1,060	ō			0
	Rail HAZUS SDURS	Length (ft)	422	6	25.0	120	33			1
	Residential - Single Family Dwelling	Count	4	6	37.0	1,136	507			18
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	6	38.5	27	12			18
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	6	38.5	29	13	602	3,321	18
SM-199	Communication HAZUS SDURS	Count	1	4	49.0	118	64			18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	2,663	5	25.0	533	146			6
	Residential - Single Family Dwelling	Count	2	5	32.6	660	261			16
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	5	32.0	15	6			15
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	5	32.0	15	6	483	1,341	15
SM-202	Residential - Single Family Dwelling	Count	1	3	20.8	266	64	64	266	10
SM-39	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,276	1	25.0	1,455	400			6
	Transmission Line	Length (ft)	2,256	1	-	555	0	400	2,011	0
SM-40	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,779	2	25.0	1,556	428	428	1,556	6
SM-41	Commercial- Professional/ Technical Services	Count	1	1	2.0	4	1			1
	Commercial- Retail Trade	Count	1	1	1.0	72	9			0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	217	1	25.0	43	12			6
	Petr_Pipelines_DWR	Length (ft)	9,239	1	0.0	1,940	0			0
	Rail_HAZUS_SDURS	Length (ft)	5,522	1	0.0	1,574	0	21	3,633	0
SM-42	PBSJ_Substation	Count	1	2	25.0	1,000	275			0
	Transmission Line	Length (ft)	3,061	1	-	754	0	275	1,754	0
SM-43	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	94	4	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	6	1	-	0	0			0
	Residential - Single Family Dwelling	Count	1	4	29.3	252	88	88	252	14
SM-44	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	8,456	1	25.0	1,691	465			6
	Residential - Single Family Dwelling	Count	3	1	16.4	998	183			
	Transmission Line	Length (ft)	2,710	1		667	0	648	3,356	0
SM-46	Commercial- Retail Trade	Count		1	1.0	6	1			0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	2,339	1	25.0	468	129	129	474	6
SM-47	Solid_Waste_Facilities	Count	11	1	0.0	0	0	0	0	0
SM-48	Commercial - Entertainment and Recreation	Count	111	1	9.0	1,572	259			0
	Commercial- Professional/ Technical Services	Count		1	11.0	1,832	322			4
	Commercial- Retail Trade	Count '	2		9.0	32,602	5,379			3
	PBSJ_Gas_Oil_Wells	Count	2	2		0	0			0
	Petr Pipelines DWR	Length (ft)	21,217		0.0 25.0	4,455	0	ا ا	40 400	0
014 40	Rail_HAZUS_SDURS	Length (ft)	10,409			2,966	816	6,777	43,428	
SM-49	Commercial- Professional/ Technical Services	Count		2	11.0	84	19	1		4
	Commercial- Retail Trade	Count	1 200	2	9.0	170	36			3
	Delta_Roads_PBSJ_Minor_Roads Petr_Pipelines_DWR	Length (ft)	2,642	- 2	25.0	528 508	145 0	; j		6
	Rail HAZUS SDURS	Length (ft)	2,421	2	0.0 25.0		345	j		<u>U</u>
	Residential - Single Family Dwelling	Length (ft)	4,397	<u></u>	16.4	1,253 728	134	679	3,272	8
SM-51		Count	2	2	0.0			6/9	3,2/2	8
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2			0	0	· · ·	0	0
SM-52	Commercial- Retail Trade	Count		4	16.0	110	51	ŀ		l t

1	Delta Danda DDC I Minas Danda	11	4 940		25.0	370	102			
	Delta Roads PBSJ Minor Roads	Length (ft)	1,849	4	0.0	0	102			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	169	4	0.0	0	- 0			
	PBSJ_Gas_Oil_Wells	Count	6		25.8	455				12
	Residential - Single Family Dwelling	Count	2	4		455	137			12
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	4	25.5 25.5	5		293	942	12
	Residential- Multi- Dwellings- 20 to 49 units	Count		4				293	942	- '
SM-53	Commercial- Retail Trade	Count	1	0	1.0	28	1			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	53	0	0.0	11	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	97	0	0.0	0	0	- 1		(
	PBSJ_Gas_Oil_Wells	Count		1		0	0	1		
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	0	13.5	2	0			
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	0	13.5	2	0	1	42	
SM-54	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,304	1	25.0	661	182			
	PBSJ_Gas_Oil_Wells	Count	3	1		0	0	- 1		
	Petr_Pipelines_DWR	Length (ft)	117	1	0.0	25	0	i i		
	Rail_HAZUS_SDURS	Length (ft)	3,031	1	25.0	864	238	419	1,549	
SM-55	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,380	5	25.0	2,876	791			
	NG_Pipelines_DWR	Length (ft)	4,432	5	0.0	842	0	l		
	Petr_Pipelines_DWR	Length (ft)	4,424	5	0.0	929	0	l		
	Residential - Single Family Dwelling	Count	2	5	29.3	566	198	989	5,213	1.
SM-56	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,417	3	25.0	1,083	298			
	NG_Pipelines_DWR	Length (ft)	5,028	3	0.0	955	0			
	PBSJ Gas Oil Wells	Count	2	4		0	0	l		
	Petr Pipelines DWR	Length (ft)	3,111	3	0.0	653	0	i i		
	Residential - Single Family Dwelling	Count	3	3	20.8	1,070	258	556	3,761	1:
SM-57	Delta Roads PBSJ Minor Roads	Length (ft)	4,563	1	25.0	913	251			
51	Hwy Bridge HAZUS SDURS	Length (ft)	1	Ö	0.0	2.000	0			
	NG Pipelines DWR	Length (ft)	535	1	0.0	102	0		*	
	Transmission Line	Length (ft)	5,895	1		1.451	0	251	4,466	
SM-58	Delta Roads PBSJ Minor Roads	Length (ft)	3,840	4	25.0	768	211	211	768	
SM-59	Delta Roads PBSJ Major Roads	Length (ft)	652	2	25.0	215	59			
···· · · ·	Hwy HAZUS SDURS	Length (ft)	631	2	25.0	208	57			
	PBSJ Gas Oil Production Fields	Area (Acres)	271	- 5	0.0	0	0			
	PBSJ Gas Oil Wells	Count	8	1		ő	ŏ	- 1	,	
	Residential - Single Family Dwelling	Count	 		20.8	176	42	159	599	1
SM-60	Commercial - Entertainment and Recreation	Count	- - - - - - - - - - - - - - - - -		9.0	1,374	227	100		
3M-00	Commercial- Professional/ Technical Services	Count			11.0	1,940	341			
	Commercial- Retail Trade	Count			9.0	692	114			
	Delta Roads PBSJ Minor Roads	Length (ft)	805		25.0	161	44			
	Hwy Bridge HAZUS SDURS	Length (ft)	1	3	0.0	2,000	77	727	6.167	
SM-84	Commercial- Retail Trade	Count		- 3	18.0	162	80	121	0,107	
3W-04	Delta Roads PBSJ Minor Roads		57,165	4	25.0	11,433	3,144			
		Length (ft)				11,433	3,144	1		
	PBSJ Gas Oil Production Fields	Area (Acres)	9 9	4	0.0	0	- 0			
	PBSJ_Gas_Oil_Wells	Count			29.3				45.000	
CM OF Colonby Internal	Residential - Single Family Dwelling	Count	11	4		3,498	1,225	4,449	15,093	1.
SM-85-Grizzly_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	45,163	4	25.0	9,033	2,484	i i		(
	NG_Pipelines_DWR	Length (ft)	30,134	4	0.0	5,726	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	190	4	0.0	0	0	l		
	PBSJ_Gas_Oil_Wells	Count	12	3		0	0			
	Petr_Pipelines_DWR	Length (ft)	2,326	4	0.0	488	0		40.0	
	Residential - Single Family Dwelling	Count	5	4	29.3	1,686	590	3,074	16,933	1.
Smith_Tract	Residential - Single Family Dwelling	Count	1	0	12.5	237	30	30	237	
Staten_Island	Commercial- Retail Trade	Count	1	18	100.0	246	271			1
	Delta_Roads_PBSJ_Major Roads	Length (ft)	4,422	18	25.0	1,459	401			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	46,221	18	25.0	9,244	2,542			
	Hwy Bridge HAZUS SDURS	Length (ft)	1	15	0.0	2,000	0			
1	NG Pipelines DWR	Length (ft)	26,158	18	0.0	6,801	0		-	

ı	PBSJ Gas Oil Production Fields	Area (Acres)	1,636	18	0.0	0	0	1		
	PBSJ Gas Oil Wells	Count	34	15		0	~	- 1		
	Residential - Manufactured Housing	Count	- 37 -	18	100.0	329	341	1		2
	Residential - Manufactured Flousing	Count	3	18	100.0	518	550	4,105	20,596	2
Sutter Island	Delta Roads PBSJ Major Roads	Length (ft)	3,515	7	25.0	1,160	319	7,100	20,000	
Sutter Island	Delta_Roads_PBSJ_Minor_Roads		63,251		25.0	12,650	3,479			
	Liver MAZUE COUDE	Length (ft)	5,145		25.0	1,698	467	I		
	Hwy_HAZUS_SDURS	Length (ft)			25.0		467			
	PBSJ_Gas_Oil_Wells	Count	5	4	400.0	0 60	61	1		2
	Residential - Manufactured Housing	Count	4		100.0					
	Residential - Single Family Dwelling	Count	38	7	37.0	10,256	4,580	0.440	00.000	1
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	7	38.5	510	233	9,140	26,333	1
Terminous_Tract 1	bridges_not_in_HAZUS	Count		0	0.0	1,000	0			
	Commercial- Professional/ Technical Services	Count	1	2	11.0	4	1			
	Commercial- Retail Trade	Count	1	2	9.0	10	2			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,329	2	25.0	266	73			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	28	2	0.0	0	0	l l		
	PBSJ_Gas_Oil_Wells	Count	2	2		0	0			
	Residential - Manufactured Housing	Count	2	2	44.0	138	64	į.		2
	Residential - Single Family Dwelling	Count	1	2	16.4	216	40	l		
	Schools_HAZUS_SDURS	Count	1	0	0.0	1,180	0	180	2,814	
Terminous_Tract 2	Agriculture	Count	1	14	100.0	2,270	2,147			1
	Boatlaunch	Count	1	15	100.0	100	110			
	Commercial - Wholesale Trade	Count	1	14	49.0	4,062	3,329	l		1
	Commercial- Professional/ Technical Services	Count	1	14	100.0	172	189	l		1
	Commercial- Retail Trade	Count	1	14	100.0	1,282	1,410	l		1
	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,597	14	25.0	1,187	326	l		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	93,422	14	25.0	18,684	5,138			
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	0	0.0	2,000	ó	ļ		
	Hwy HAZUS SDURS	Length (ft)	24,235	14	25.0	7,998	2,199	j		
	PBSJ Cell Towers	Count	1	17	-	250	0	l		
	PBSJ Gas Oil Production Fields	Area (Acres)	655	14	0.0	0	Ō	J		
	PBSJ Gas Oil Wells	Count	21	13	-1	ö	Ö	l		
	Residential - Duplex	Count	2	14	100.0	855	909			2
	Residential - Manufactured Housing	Count	191	14	100.0	9,783	10,151	ļ		2
	Residential - Single Family Dwelling	Count	75	14	100.0	15.390	16,365	42,275	64,033	2
Terminous_Tract 3	Delta Roads PBSJ Minor Roads	Length (ft)	251	2	25.0	50	14	.2,2.0	51,000	
	Residential - Manufactured Housing	Count	7	2	44.0	345	159	ļ		2
	Residential - Single Family Dwelling	Count		2	16.4	545	100	273	940	
Twitchell Island	Delta Roads PBSJ Minor Roads	Length (ft)	26,529	17	25.0	5,306	1,459	2/3	340	
·····cii_isialiu	NG Pipelines DWR	Length (ft)	8,803	17	0.0	2,025	1,459			
	NG Wells DWR Not in PBSJ	Count	0,003	21	0.0	2,025				
	PBSJ Gas Oil Production Fields	Area (Acres)	2,197	17	0.0	- 0				
	PBSJ Gas Oil Wells	Count	35	15	0.0	- 0	0			
	Residential - Duplex	Count	35	17	100.0	396	421	1		2
	Residential - Duplex Residential - Manufactured Housing	Count	28		100.0	1,446	1,500			
				17 17	100.0			1		2
	Residential - Single Family Dwelling	Count	24			4,956	5,270	1		2
	Residential - Triplex-Quads	Count		17	100.0 100.0	294	313	0.000	44400	2
Today Jaland A	Residential- Multi- Dwellings- 10 to 19 units	Count		17		71	75	9,038	14,493	2
Tyler_island 2	Airports_HAZUS_SDURS	Count		12	25.0	6,431	1,769	l		
	Delta_Roads_PBSJ_Major Roads	Length (ft)	5,160	16	25.0	1,703	468	1		·
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	167,780	16	25.0	33,556	9,228	ı		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)		8	0.0	2,000	0	I		
	NG_Pipelines_DWR	Length (ft)	35,509	16	0.0	7,457	0	I		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	4,237	16	0.0	Ö	0			
	PBSJ_Gas_Oil_Wells	Count	96	15	•	0	0	I		
	Residential - Manufactured Housing	Count	2	16	100.0	245	254	j		2
	Residential - Single Family Dwelling	Count	17	16	100,0	4,800	5,104	1		2

	Runway HAZUS SDURS	Count	1	0	0.0	36,674	0	ı	. [(
•	Solid Waste Facilities	Count	1	0	0.0	0	0	16,822	92,865	(
Union_Island 1	Dams HAZUS SDURS	Count	1	8	0.0	0	0			(
	Delta Roads PBSJ Major Roads	Length (ft)	38,706	7	25.0	12,773	3,513	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	160,116	7	25.0	32,023	8,806			
	NG Pipelines DWR	Length (ft)	53,022	7	0.0	10,074	0			
	PBSJ Cell Towers	Count	1	0	-	250	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	1,773	7	0.0	0	0			
	PBSJ Gas Oil Wells	Count	32	2		0	0			
	Residential - Duplex	Count	3	7	38.5	1,203	550			16
Ÿ.	Residential - Institutional Dormitory	Count	4	7	16.0	22,850	6,686			
	Residential - Manufactured Housing	Count	16	7	100.0	683	698			2
	Residential - Single Family Dwelling	Count	47	7	37.0	11,534	5,151			1
	Schools_HAZUS_SDURS	Count	1	3	7.0	1,180	402			
	Transmission Line	Length (ft)	123,469	7		30,400	0	25,807	122,968	
Union_Island 4	Delta Roads PBSJ Minor Roads	Length (ft)	40	-	25.0	8	2		,	
0,11011_131a11a 4	PBSJ Gas Oil Production Fields	Area (Acres)	1 1	2	0.0	0	0	2	8	
Upper Roberts Island	Delta Roads PBSJ Minor Roads	Length (ft)	1,665		25.0	333	92			· · · · · · · · · · · · · · · · · · ·
oppor_ivoneira_iaigilu	NG Pipelines DWR	Length (ft)	2,484		0.0	472	0	1		1
	PBSJ Gas Oil Production Fields	Area (Acres)	230		0.0	7/2	0			
	PBSJ Gas Oil Wells	Count	5	- 6	<u>0.0</u>	- 0	0	1		
	Residential - Single Family Dwelling	Count	 	2	16.4	225	41			
	Transmission Line	Length (ft)	4,340		10.4	1,069	0	133	2,099	
Von Cialda Island	PBSJ Gas Oil Production Fields			2	0.0		0	100	2,035	
Van_Sickle_Island	PBSJ Gas Oil Production Fields PBSJ Gas Oil Wells	Area (Acres)	294	3	0.0	0	0			
		Count	16							
	Residential - Single Family Dwelling	Count	3	3	25.8	810	245	40.745	400.040	1:
	Sewage_Treat	Count	1	2	15.0	100,000	16,500	16,745	100,810	(
Veale_Tract 1	Commercial- Professional/ Technical Services	Count		7	41.0	270	180			15
	Commercial- Retail Trade	Count			26.0	84	49			
	Delta Roads PBSJ Minor Roads	Length (ft)	5,221		25.0	1,044	287	l		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	86		0.0	0	0	l		
	PBSJ_Gas_Oil_Wells	Count	5	7	-	0	0	İ		
	Residential - Manufactured Housing	Count	5		100.0	266	272	l		2
	Residential - Single Family Dwelling	Count	31		39.1	9,720	4,663			1
	Transmission Line	Length (ft)	17,928	7		5,772	0	5,451	17,156	
Veale_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	73	2	25.0	15	4			
	NG_Pipelines_DWR	Length (ft)	7	2	0.0	1	0			
	Residential - Institutional Dormitory	Count	11	2	10.0	4,968	809			
	Residential - Single Family Dwelling	Count	2	2	20.8	519	125	938	5,503	11
Venice_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	66,238	22	25.0	13,248	3,643			
	PBSJ_Gas_Oil_Wells	Count	4	23	-	0	0			
	Residential - Manufactured Housing	Count	2	22	100.0	60	62	3,705	13,308	2
Victoria_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	67,467	14	25.0	13,493	3,711			
	Hwy_HAZUS_SDURS	Length (ft)	23,053	0	0.0	7,607	0	1	j	
	NG_Pipelines_DWR	Length (ft)	9,170	14	0.0	1,742	Ó	l	1	
	PBSJ_Gas_Oil_Wells	Count	2	15	-	0	0	l	- 1	(
	Residential - Institutional Dormitory	Count	5	14	38.0	28,835	15,563	Į.	1	11
	Residential - Manufactured Housing	Count	1	14	100.0	45	47	l	- 1	24
	Residential - Single Family Dwelling	Count	3	14	100.0	1,196	1,271	l	1	2.
	Transmission Line	Length (ft)	12,954	14		4,171	0	20,592	57,089	
Walnut_Grove	Commercial- Professional/ Technical Services	Count	1	7	38.0	554	360			14
-	Commercial- Retail Trade	Count	1	 	23.0	288	163	l	ł	
	Communication HAZUS SDURS	Count	3	- 6	0.0	354	100	1	ŀ	
	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,282	 	25.0	1,083	298	ļ		
	Delta Roads PBSJ Minor Roads	Length (ft)	24,278		25.0	4,856	1,335	1	-	
	hc ambulatory	Count	1	ó	2.0	-7,000	1,333		ł	
	Hwy Bridge HAZUS SDURS	Length (ft)	- - - - - - - - - - - - - -		0.0	4.000			ŀ	
	THE DINGC HAZOO ODOTO	rengui (ii)	<u> </u>		0.0	4,000			Į.	

	PBSJ Gas Oil Production Fields	Area (Acres)	285	71	0.0	0	ol	1		
	PBSJ Gas Oil Production Fleids PBSJ Gas Oil Wells	Count	5		0.0	0				
	Residential - Duplex	Count	14	- '/	38.5	5,943	2,720			18
	Residential - Manufactured Housing	Count			100.0	416	425			24
	Residential - Mandiactured Housing Residential - Single Family Dwelling	Count	142		37.0	37,839	16,899	22,199	55,332	18
Water Zone 1	Boatlaunch	Count	8	ó	0,0	800	0,000	22,100	00,002	
vater zone i	Commercial- Professional/ Technical Services	Count	1 1	11	100.0	2,200	2,178			18
	Commercial- Retail Trade	Count		11	42.0	2,260	1,516			1:
	Delta Roads PBSJ Major Roads	Length (ft)	24,292	ž	25.0	8,016	2,204			
	Delta Roads PBSJ Minor Roads	Length (ft)	167,715	2	25.0	33,543	9,224	1		
	Fire Stations HAZUS SDURS	Count	101,7, 10	0	0.0	1,770	0	i		
	Hwy Bridge HAZUS SDURS	Length (ft)		ő	0.0	4,000	ŏ			
	Hwy HAZUS SDURS	Length (ft)	71,411	2	25.0	23,566	6,481			
	NG Pipelines DWR	Length (ft)	56,786	2	0.0	15,900	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	2,533	2	0.0	0,000	-			
	PBSJ Gas Oil Wells	Count	26	ō		ō	ō	i		
	PBSJ Substation	Count	6	1	25.0	6,000	1,650	- 1		
	Petr Pipelines DWR	Length (ft)	459	2	0.0	96	1,000			
	Police Station HAZUS SDURS	Count	1	0	0.0	4,130	ŏ			
	Residential - Manufactured Housing	Count	62	2	44.0	3,356	1,550			2
	Residential - Single Family Dwelling	Count	126	2	16.4	31,724	5,833			
	Residential- Multi- Dwellings- 10 to 19 units	Count	120	11	100.0	381	405			. 2
	Residential- Multi- Dwellings- 20 to 49 units	Count		11	100.0	42	45			2
	Schools HAZUS SDURS	Count		'0	0.0	1,180	0			•
	Transmission Line	Length (ft)	34,201	2		8,421	ő	31,087	147,384	
Vater Zone 2	Boatlaunch	Count	11	- 1	0.0	1,100	o	01,007	111,001	
ater zone z	bridges not in HAZUS	Count	5	6	0.0	5.000	0			
	Commercial- Professional/ Technical Services	Count	1 1	9	44.0	876	597			1
	Commercial- Retail Trade	Count	<u> </u>	9	30.0	204	123			1
	Delta Roads PBSJ Minor Roads	Length (ft)	57,158	5	25.0	11,432	3,144			
	gas pipeline kinder morgan LS 9	Length (ft)	818	5	0.0	172	0,111			
	Hwy Bridge HAZUS SDURS	Length (ft)	4	2	0.0	8.000	<u></u>			
	Hwy HAZUS SDURS	Length (ft)	11,760	5	25.0	3,881	1.067			
	NG Pipelines DWR	Length (ft)	36,581	5	0.0	6,950	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	2,482	5	0.0	0,000	0			
	PBSJ Gas Oil Wells	Count	7,820	3		ő	0			
	PBSJ Mokelumne Agueduct	Length (ft)	2,615	5	ol	13.073	0			
	PBSJ Substation	Count	2	12	25.0	2,000	550			
	Petr Pipelines DWR	Length (ft)	83,727	9	0.0	17,583	0			· · · · · · · · · · · · · · · · · · ·
	Ports HAZUS SDURS	Count	16	5	0.0	41,158	<u></u>			
	Rail Bridge HAZUS SDURS	Count		2	25.0	1,000	275			
	Rail_HAZUS_SDURS	Length (ft)	29,631	16	25.0	8,445	2,322			
	Residential - Institutional Dormitory	Count	20,001	8	18.0	6,656	2,162			
	Residential - Manufactured Housing	Count	30	5	100.0	1,689	1,691			2
	Residential - Wandractured Flodsling	Count	230	5	29.3	73,952	25,895			1
	Residential- Multi- Dwellings- 10 to 19 units	Count		9	45.5	326	176	1		2
	Residential- Multi- Dwellings- 20 to 49 units	Count		9	45.5	677	367			
	Sewage Treat	Count		6	15.0	830.000	136,950			
	Transmission Line	Length (ft)	34,086	- 5	19.0	8,392	130,930	175 320	1,042,564	
later Zone 3	air trans	Count	34,000	0		0,392	0	170,020	1,072,004	
TULCI EVIIC V	Boatlaunch	Count		- 4	0.0	600	0	ł		
	bridges not in HAZUS	Count	2		0.0	2.000	0	ł		
	Commercial- Professional/ Technical Services	Count	1 1	9	47.0	2,000	1,431	1		1
	Commercial- Professional/ Technical Services Commercial- Retail Trade			9	47.0 34.0	2,048 486	305	- 1		
	Delta Roads PBSJ Major Roads	Count	4,559	- 3			414	l		1
		Length (ft)		1	25.0	1,505		i		
	Delta Roads PBSJ Minor Roads Hwy Bridge HAZUS SDURS	Length (ft) Length (ft)	53,304	0	25.0 0.0	10,661 6,000	2,932	l		
		II ODOTO (III)				₩ nnni	0			

	Hwy HAZUS_SDURS NG Pipelines DWR	Length (ft)	1,945							
	ING FIDEIIIES DVIN	Length (ft)	6,940		25.0 0.0	642 1,596	177			
	PBSJ Gas Oil Production Fields	Area (Acres)	738		0.0	1,596		- 1		
	PBSJ Gas Oil Viells	Count	7.36		0.0	- 6				
	Residential - Duplex	Count	1 1	1	15.5	788	140			
	Residential - Manufactured Housing	Count	47	1	44.0	2,568	1,083			2
	Residential - Single Family Dwelling	Count	45	1	16.4	10.547	1,939			
	Residential - Triplex-Quads	Count	71	1	15.5	356	63			
	Residential- Multi- Dwellings- 10 to 19 units	Count	1 1	9	48.0	87	50			2
	Sewage Treat	Count	1	0		85,000	0			
	Transmission Line	Length (ft)	5,264	1	-	1,296	ō	l l		
	water trans	Count	1	Ö	0.0	0	ō	8,532	126,178	
ater Zone 4	Boatlaunch	Count	3	0	0.0	300	o	,		
	Commercial - Entertainment and Recreation	Count	1	2	9.0	1,430	307			
	Commercial - Personal and Repair Services	Count	5	2	9.0	11,490	2,465			
	Commercial - Wholesale Trade	Count	1	2	5.0	3,118	600	i		
	Commercial- Professional/ Technical Services	Count	1	8	44.0	7,248	4,943	1		1
	Commercial- Retail Trade	Count	1	8	30.0	1,282	776	l		1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	84,845	2	25.0	16,969	4,666	1		
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	2,097	2	0.0	440	0			
	Hwy Bridge HAZUS SDURS	Length (ft)	3	0	0.0	6,000	0			
	Hwy_HAZUS_SDURS	Length (ft)	7,443	2	25.0	2,456	675			
	NG_Pipelines_DWR	Length (ft)	21,265	2	0,0	4,040	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	134	2	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	7,820	2	- 1	0	0			
	PBSJ_Mokelumne_Aqueduct	Length (ft)	8,377	2	0	41,887	0			
	Rail_HAZUS_SDURS	Length (ft)	2,956	9	25.0	842	232			
	Residential - Manufactured Housing	Count	3	2	44.0	245	113			2
	Residential - Single Family Dwelling	Count	63	5	29.3	20,322	7,116			1
	Residential- Multi- Dwellings- 10 to 19 units	Count	1	8		615	333			2
	Residential- Multi- Dwellings- 20 to 49 units	Count	1	8	45.5	270	146			2
	Transmission Line	Length (ft)	8,997	2	-	2,897	0	22,373	121,851	
ater Zone 5	bridges_not_in_HAZUS	Count	2	16	0.0	2,000	0			
	Commercial- Professional/ Technical Services	Count	11	11	100.0	26	26	l l		1
	Commercial- Retail Trade	Count	1	11	38.0	744	483	į		1
	Delta_Roads_PBSJ_Major Roads	Length (ft)	994	8	25.0	328	90			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	12,100	0		2,420	0	l		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	<u></u>	0	0.0	2,000	0	l		
	NG_Pipelines_DWR	Length (ft)	1,155	0	0.0	375	0	l		
	PBSJ Gas Oil Production Fields	Area (Acres)		. 0	0.0	0	0			
	Petr_Pipelines_DWR	Length (ft)	332	0		70	0	- 1		
	Rail_HAZUS_SDURS	Length (ft)	453	0	0.0	129	0	1		
	Residential - Manufactured Housing Residential - Single Family Dwelling	Count	- 2	<u>0</u>	1110	120	11	1		
	Transmission Line	Count	46	0		16,002	2,054		05.040	
ebb_Tract	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Length (ft)	3,234	0		796	0	2,663	25,010	
enn_1tgct	NG_Pipelines_DWR PBSJ Gas Oil Production Fields	Length (ft)	1,291	19	0.0	245	0	l l		
	PBSJ Gas Oil Production Fleids PBSJ Gas Oil Wells	Area (Acres)	83	19	0.0	- 0	0	ĺ		
		Count Count	18	16	100.0	0	0	460	,,,	
oodward_Island	Residential - Single Family Dwelling			19		171	182	182	416	2
oouwaru_isidN0	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	28,147	16	25.0	5,629	1,548	· 1		
	gas pipeline kinder morgan LS 9	Length (ft)	7,820	16	0.0	1,642	0 700	l		
	PBSJ_Mokelumne_Aqueduct Rail HAZUS SDURS	Length (ft)	23,350	16	-	116,749	9,760	4, 555	40	
right Elmuras d Trast		Length (ft)	2,290	0	0.0	653	0	11,308	124,673	
right-Elmwood_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	9,701	5	25.0	1,940	534	į		
	PBSJ_Gas_Oil_Wells	Count	2	16		0	0	. [
	Residential - Single Family Dwelling Residential- Multi- Dwellings- 10 to 19 units	Count Count	4	8 14	39.1 100.0	1,277 81	612 86		l	1 2

	Residential- Multi- Dwellings- 20 to 49 units	Count	1	14	100.0	27	29	ĺ		2
	Transmission Line	Length (ft)	53,221	11		13,104	0	1,261	16,428	
Yolo Bypass	Delta Roads PBSJ Minor Roads	Length (ft)	982	1	25.0	196	54	54	196	
Zone 14	NG Pipelines DWR	Length (ft)	2,272	7	0.0	432	0			
20110 14	PBSJ Gas Oil Wells	Count	1	7		0	0	0	432	
Zone 155	Transmission Line	Length (ft)	769	4	<u>-</u> -	189	0	ő	189	
Zone 162	Delta Roads PBSJ Minor Roads	Length (ft)	3,113	2	25.0	623	171	<u>-</u>	100	
Zone roz	NG Pipelines DWR	Length (ft)	1,544	2	0.0	293	1/1			
	Residential - Single Family Dwelling	Count	5	2	16.4	1,428	263	434	2,344	
Zone 186	Transmission Line	Length (ft)	13,335		0.0	3,283	0	0	3,283	
Zone 206	bridges not in HAZUS	Count	10,000	0	0.0	1,000	0	<u>`</u>	3,203	
Zone 200	Commercial - Entertainment and Recreation	Count		- 3	11.0	1,868	545			
	Commercial - Personal and Repair Services	Count	- 		12.0	1,908	567			
	Commercial - Wholesale Trade	Count			8.0	3,678	1,011			
	Commercial - Wholesale Trade Commercial - Professional/ Technical Services	Count			16.0	1,820	581			
	Commercial- Retail Trade	Count		2	14.0	948	292			
	Delta Roads PBSJ Major Roads	Length (ft)	7,934		25.0	2.618	720			
	Delta Roads PBSJ Minor Roads	Length (ft)	483		25.0	97	27			-
	PBSJ Gas Oil Production Fields	Area (Acres)	403	- 4	0.0	0	0			
	PBSJ Gas Oil Wells	Count	- 3	2	<u> </u>	- 6				
	Petr Pipelines DWR	Length (ft)	31,151	2	0.0	6.542	0			
	Rail HAZUS SDURS	Length (ft)	7.825	2	25.0	2,230	613			
	Residential - Institutional Dormitory	Count	1		10.0	2,230	418	4,773	25,276	
Zone 207	Delta Roads PBSJ Minor Roads	Length (ft)	1,855	2	25.0	371	102	7,775	۵٠,۵10	
	Petr Pipelines DWR	Length (ft)	1,905		0.0	400	102	İ		
	Rail HAZUS SDURS	Length (ft)	4,131	2	25.0	1,177	324	426	1.948	-
Zone 31	Residential - Single Family Dwelling	Count	2	0	12.5	645	83	83	645	
Zone 33	Residential - Single Family Dwelling	Count		0	12.5	245	31	31	245	
Zone 36	Residential - Single Family Dwelling	Count		- 4	16.4	405	74	31	245	
2016 30	Residential - Single Partity Dwelling Residential - Multi- Dwellings - 10 to 19 units	Count			15.5	405	14			
	Residential- Multi- Dwellings- 20 to 49 units	Count			15.5	5				
	Solid Waste Facilities	Count 1 0 0.0 0 0 76	416							
Zone 37	Commercial - Entertainment and Recreation	Count		5	14.0	1,446	724	70	410	
Zone 37	Commercial - Entertainment and Recreation Commercial - Professional/ Technical Services	Count		5	28.0	272	157			10
	Commercial- Retail Trade	Count	 		18.0	286	149			- 11
	Delta Roads PBSJ Minor Roads	Length (ft)	221	5	25.0	44	12			
	hc ambulatory	Count	1 1		2.0		0			
	Hwy HAZUS SDURS	Length (ft)	60	5	25.0	20	5			
	Petr Pipelines DWR	Length (ft)	487	- 5	0.0	102				
	Rail HAZUS SDURS	Length (ft)	495	5	25.0	141	39			
	Residential - Manufactured Housing	Count	793	5	100.0	171	173			24
	Residential - Manuactured Floating	Count	 	5	29.3	732	271			14
	Residential- Multi- Dwellings- 10 to 19 units	Count		5	28.5	30	11			14
	Residential- Multi- Dwellings- 20 to 49 units	Count	1 1	5	28.5	180	66	1,608	3,424	1
Zone 38	Commercial- Professional/ Technical Services	Count	- 	1	11.0	42	7	1,500	0,727	
	Commercial- Retail Trade	Count	 		9.0	30	5			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	450		25.0	90	25			l
	Hwy_HAZUS_SDURS	Length (ft)	95		25.0	31	9			
	Petr Pipelines DWR	Length (ft)	1,314		0.0	276				
	Rail HAZUS SDURS	Length (ft)	1,559	- 1	25.0	444	122			
	Residential- Multi- Dwellings- 10 to 19 units	Count	11	il-	15.5	2	0			
	Residential- Multi- Dwellings- 20 to 49 units	Count	<u> </u>	il-	15.5	6	<u>ĭ</u> l	169	921	
Zone 64	PBSJ Gas Oil Production Fields	Area (Acres)	1 1	ö	0.0	0	Ö	.00	741	
	Residential - Single Family Dwelling	Count			12.5	588	75	75	588	
Zone 90	Hazmat HAZUS SDURS	Count	2	ő		0	0	- , ,	500	
~~										
	Petr Pipelines DWR	Length (ft)	26	21	0.0	6	0	1		

Table 7- 1b: Estimate Summary of Asset Cost Damage by Island - Mean Higher High Water - (MHHW)

			Percent of Total
Island Name			Value Damaged
	Total Repair Costs	Total Asset Value	(%)
Bacon_Island	31,586		72
Bethel_Island	148,408		58
Bishop_Tract	2,853		16
Bixler_Tract Bouldin Island	155		24
Brack_Tract	14,359 2,830		55 22
Bradford Island	11,554		53
Brannan-Andrus Island	138,312		64
Browns_Island	0		0
Byron_Tract 1	19,404	117,359	17
Byron_Tract 2	3,436		16
Cache_Haas_Tract 1	4,408		21
Cache_Haas_Tract 2	1,167	4,215	28
Canal Ranch Chipps Island	4,347	10,807	40
Clifton Court Forebay Water	504	Į <u> </u>	12
Coney Island	13,187	4,206 21,921	60
Deadhorse Island	15,167	·····	16
Decker_Island	0		0
Egbert_Tract	3,862	·······	18
Elk_Grove 1	69	252	28
Empire_Tract	3,426		35
Fabian_Tract	6,574		23
Fay Island	6		28
Glanville_Tract Grand Island	1,202 182,004	6,230 253,980	19
Hastings Tract 1	182,004		72 7
Hastings Tract 2	2.478		20
Holland Land	6,186	22,496	28
Holland_Tract	6,432	15,787	41
Honker_Bay_Club	65	2,111	3
Hotchkiss_Tract 1	48,771	125,411	39
Hotchkiss_Tract 2	184	1,119	16
Jersey_island	3,266	24,614	13
Jones_Tract-Upper_and_Lower	69,757	508,474	14
King_Island Libby_McNeil_Tract 1	32,968 6,207	44,049 19,259	75 32
Libby_McNeil_Tract 2	152	19,259	13
Liberte Island	1,968	14,599	13
Lincoln_Village_Tract	5,181	18,902	27
Lisbon_District	2,836	11,583	24
Little Holland Tract	0	0	0
Little_Egbert□_Tract	1,698	7,290	23
Lower_Roberts_Island	370	1,149	32
Mandeville_Island	1,433	5,212	28
McCormack_Williamson_Tract	546	3,115	18
McDonald Tract McMullin Ranch-River Junction Tract	21,141 2,092	36,246 7,607	58 28
Medford Island	2,092 4,637	7,607 8,559	
Merritt Island	5,932	19,832	30
Middle Roberts Island	45,573	542,741	8
Netherlands 2	32,590	117,086	28
New_Hope_Tract	13,281	39,244	34
Orwood_Tract	36,930	247,312	15
Palm_Tract	6,973	22,563	31
Peter Pocket	598	2,575	23
Pico_Naglee_Tract	6,002	26,148	23
Pierson_Tract Pittsburg	24,869	70,446	35
Prospect_Island	3,508 468	23,642 1,788	15 26
Quimby Island	134	1,788	26 12
Rindge Tract	6,017	18,516	32
	5,017	10,010	

Rio_Blanco_Tract	206	5,065	
Roberts_Island	4,056	14,849	
Rough_and_Ready_Island	18,652	50,513	
Ryer Island	24,503	42,835	
Sargent_Barnhart_Tract 2	280,988	696,608	
Sargent_Barnhart_Tract 3	1,502	19,826	8
Schafter-Pintail Tract	954	3,080	31
Sherman_Island	22,203	114,940	19
Shima_Tract	275	7,137	4
Shin_Kee_Tract Simmons-Wheeler Island	82	807	10
SM-123	61 387	252 3,582	24
SM-124	6,480	226,566	11 3
SM-132	117	220,300	45
SM-133	0	203	. 45
SM-134	0	0	Ö
SM-198	602	3,321	18
SM-199	483	1,341	36
SM-202	64	266	24
SM-39	400	2,011	20
SM-40	428	1,556	28
SM-41	21	3,633	1
SM-42	275	1,754	16
SM-43	88	252	35
SM-44	648	3,356	19
SM-46	129	474	27
SM-47	0	0	0
SM-48	6,777	43,428	16
SM-49	679	3,272	21
SM-51	0	0	0
SM-52	293	942	31
SM-53 SM-54	1 140	42	4
SM-55	419 989	1,549 5,213	27 19
SM-56	556	3,761	15
SM-57	251	4,466	6
SM-58	211	768	28
SM-59	159	599	27
SM-60	727	6,167	12
SM-84	4,449	15,093	29
SM-85-Grizzly Island	3,074	16,933	18
Smith_Tract	30	237	13
Staten_Island	4,105	20,596	20
Sutter Island	9,140	26,333	35
Terminous_Tract 1	180	2,814	6
Terminous_Tract 2	42,275	64,033	66
Terminous_Tract 3	273	940	29
Twitchell_Island	9,038	14,493	62
Tyler_Island 2	16,822	92,865	
Union_Island 1	25,807	122,968	21
Union_Island 4	2	8	28
Upper_Roberts_Island	133	2,099	6
Van_Sickle_Island Veale Tract 1	16,745	100,810	17 32
Veale_Tract 1 Veale Tract 2	5,451 938	17,156 5,503	32 17
Venice Island	3,705	13,308	28
Victoria Island	20,592	57,089	36
Walnut Grove	22,199	55,332	40
Water Zone 1	31,087	147,384	21
Water Zone 2	175,320	1,042,564	17
Water Zone 3	8,532	126,178	7
Water Zone 4	22,373	121,851	18
Water Zone 5	2,663	25,010	11
Webb_Tract	182	416	44
Woodward_Island	11,308	124,673	9
Wright-Elmwood_Tract	1,261	16,428	8
Yolo_Bypass	54	196	28
Zone 14	0	432	0
Zone 155	0	189	0
Zone 162	434	2,344	19

Zone 186	0	3,283	0
Zone 206	4,773	25,276	19
Zone 207	426	1,948	22
Zone 31	83	645	13
Zone 33	31	245	13
Zone 36	76	416	18
Zone 37	1,608	3,424	47
Zone 38	169	921	18
Zone 64	75	588	13
Zone 90	1	9	11
Total (\$1,000)	1,815,139	6,688,928	27

Table 7- 2 a: Estimate of Asset Cost Damage and Repair Times- 100-year Flood (Current)

Total Asset Value: \$56.3 Billion

1	2	3	4	5	6	7	8	9	10	11
			GIS	Avg		Total Asset Value (Structure +	Repair Costs (Structural + Content +	Inundation Repair	Per Island	Repair Time (Months)
	_	Inventory	Quantity	Inundation	Percent	Contents)	Debris)	Costs	Asset Value	
Island Name	Asset Type	Unit	(current)	Depth (ft)	Damage	(\$1,000)	(\$1,000)	(\$1000)	(\$1000)	
Bacon_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,654	21	25		2,071	l		6
No.	gas_oil_wells	Count	8	21	0		0	l		
	Natural Gas Pipeline	Length (ft)	28,288	21	0		0 545	04.500	40.040	0
	Residential - Institutional and Dormitory Housing		5	21	100		29,515	31,586	43,916	24
Bethel_Island	Boatlaunch	Count	3	10			330			0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	157,050	13	25		8,638		1	6
	Gas_Oil_Production_Fields	Area (Acres)	722	13	0		<u> </u>	l		0
	gas_oil_wells	Count	24	13	0					0
	Natural Gas Pipeline	Length (ft)	23,383	13	0		0			Ŭ
	Natural Gas Wells	Count	2	15		0 100	0 000	ł		, 0
	Residential - Duplex	Count	151	13	100		3,688	ł		24 24
	Residential - Manuf, Housing	Count	451	13	100		23,947	ł		
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	13	100	1,215	1,292	ł		24
	Residential - Single Family Dwelling	Count	693	13	100	190,205	202,251	ł		24
	solid_waste_facilities	Count	1	11	25	0	0	ł		
	utilities	Count	1	10 10	<u> </u>	0		240,145	254,118	
	water_trans	Count	2		- 100			240,145	204,110	<u> </u>
Bishop_Tract	Boatlaunch	Count	1	9			110 22			11
	Commercial - Retail Trade	Count	0.400	9	30 25		225	1		111
	Delta Roads PBSJ Major Roads	Length (ft)	2,483	9	25 25		5,029			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	91,434	v	25 0		5,029		İ	
	Gas_Oil_Production_Fields	Area (Acres)	98	23 13	0		- 0	1		- 3
	gas_oil_wells Hwy Bridge HAZUS SDURS	Count Count	1	13	25		3,300			9
			10,846	9	25		984			3
	Hwy_HAZUS_SDURS	Length (ft)	10,646	9		3,579	40	-	l	24
	Residential - Manuf. Housing	Count Count	304	9			49,779	1		21
	Residential - Single Family Dwelling Residential - Triplex-Quads	Count	304	9			161	ł	ŀ	22
		Count	<u> </u>	5				ł		
	substation_ca		39,458	9		9,715			141,119	
Phylon Treet	transin_ca	Length (ft)	39,458	5				00,201	(41,119	6
Bixler_Tract	Delta_Roads_PBSJ_Minor_Roads Gas Oil Production Fields	Length (ft)	150 86	5	25 0	0	8	1		0
		Area (Acres) Count	80	5	0		0	1	1	
	gas_oil_wells Residential - Single Family Dwelling	Count	3	5	33		447	455	1,161	16
B			3	3			275	400	1,101	10
Boggs_Tract	bridges_not_in_HAZUS Commercial - Personal and Repair Services	Count Count	2	3	25 13		1,155	1	l	3
			1	3	13		9,233	1	1	
	Commercial - Professional and Technical Service		1	3	16		9,233 9,248	1	1	9
	Commercial - Retail Trade	Count	1	3			9,248 24,198	ł	l	
	Commercial - Wholesale Trade	Count	13 21,846	3	11 25		1,983	1		4
Ĺ	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Length (ft)	134,924		25		7,421	1		0
	Della Roads FDOJ WIIIOI Roads	Length (ft)	134,824			20,965	1,421	J	1	

1	EL D. LINTUO COUDO	I			4001	400.000	440 700	ı	í i	
1	Elec_Power_HAZUS_SDURS	Count	1	6		129,800	142,780			0
	Gas_Oil_Production_Fields	Area (Acres)	68	3		0	0			0
	Hazmat_HAZUS_SDURS	Count	19	6		0	0			0
	hc_ambulatory	Count	1	3	12	0	0			4
	hc_nursing_res	Count	1	1	7	0	0			3
	Hwy_Bridge_HAZUS_SDURS	Count	3	5		6,000	1,650			3
	Hwy_HAZUS_SDURS	Length (ft)	7,385	3	25	2,437	670			3
1	Industrial - Heavy	Count	3	3	15	22,918	9,227			5
	Industrial - Light	Count	1	. 3	17	7,405	3,046			6
	intermodal_terminal_facilities	Count	5	3	-	0	0			0
	Petroleum Pipelines	Length (ft)	23,797	3	0	4,997	0			0
	pipeline_trans	Count	1	5	-1	0	0			0
	Port_HAZUS_SDURS	Count	12	1	0	30,869	0			0
	rail 1000 nodes	Count	10	4	-	0	Ö			0
	Rail Bridge HAZUS SDURS	Count	2	2	25	2,000	550			1
	Rail Facility HAZUS SDURS	Count	4	1	25	10,290	2,830			0
	Rail HAZUS SDURS	Length (ft)	35,488	3	25	10,114	2,781			1
	Residential - Duplex	Count	35	3	26	15,719	4,726			12
	Residential - Institutional and Dormitory Housing		1	3	14	5,228	1,131			7
	Residential - Manuf. Housing	Count	34	3	100	1,527	1,131			24
	Residential - Single Family Dwelling	Count	2,381	3	26	606,555	183,483			12
	Residential - Triplex-Quads	Count	2,361	3	26	1,583	476			12
	Schools HAZUS SDURS	Count	3	0	0	3,540	4/0			0
	sewage treat	Count	1	3	30	550,000	181,500			12
	solid waste facilities	Count	1	3	25	550,000	101,300			12
	substation ca		1	5	25		075			0
	tankfarms	Count	5	9	20	1,000	275			0
		Count	3			15,000	<u>\</u>			
	utilities	Count		14		70 500	47.000			0
	Waste_Water_HAZUS_SDURS	Count	1	2	20	78,588	17,289	207.404	4 045 070	12
	water_trans	Count	2	4	-	0	0	607,404	1,645,372	0
Bouldin_Island	air_trans	Count	1	25		0	0			0
		Count	1	23	100	7,584	8,342			18
	Commercial - Retail Trade	Count	1	23	100	1,188	1,307			18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	1,505	23	25	497	137			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	43,282	23	25	8,656	2,381			6
•	gas_oil_wells	Count	17	23	0	0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	24,159	23	25	7,972	2,192			3
	utilities	Count	1	8	-	0	0	14,359	25,897	0
Brack_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	34,626	15	25	6,925	1,904			6
	Gas_Oil_Production_Fields	Area (Acres)	874	17	0	0	0			0
	gas_oil_wells	Count	19	16	0	0	0			0
	Natural Gas Pipeline	Length (ft)	25,968	15	0	5,973	0			0
	Residential - Manuf. Housing	Count	9	15	100	437	453			24
	Residential - Single Family Dwelling	Count	4	15	100	687	731	3,088	14,021	24
Bradford Island	Delta Roads PBSJ Minor Roads	Length (ft)	57,920	17	25	11,584	3,186	-,-30	,	6
	gas oil wells	Count	16	17	20	11,554	0,100	4		0
	Natural Gas Pipeline	Length (ft)	7,466	17	ō	2,165	<u>_</u>			0
	Natural Gas Welts	Count	1,400	18	-	2,.00				0
	Residential - Duplex	Count	1	17	100	219	233			24
	Residential - Manuf. Housing	Count	9	17	100	444	461			24
	Residential - Single Family Dwelling	Count	27	17	100	7,218	7,675	11,554	21,630	24
		Court	21	8	100	7,210	7,075	11,334	21,000	0
Brannan-Andrue leland		Count					1)1			. 0
Brannan-Andrus Island	air_trans	Count	1		100	900	900			
Brannan-Andrus Island	air trans Boatlaunch	Count	8	7	100	800	880			
Brannan-Andrus Island	air trans Boatlaunch Commercial - Entertainment and Recreation	Count Count	1 8 1	7 21	100	2,992	3,291			0 18
Brannan-Andrus Island	air trans Boatlaunch Commercial - Entertainment and Recreation Commercial - Professional/ Technical Services	Count Count Count	1 8 1	7 21 21	100 100	2,992 7,632	3,291 8,395			18 18
Brannan-Andrus Island	air trans Boatlaunch Commercial - Entertainment and Recreation	Count Count	1 8 1 1 1 28,729	7 21	100	2,992	3,291			18

									_	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	264,419	21	25	52,884	14,543			6
	Gas_Oil_Production_Fields	Area (Acres)	9,132	21	0	0	0			0
	gas_oil_wells	Count	157	17	0	0	0			0
	hc_hospital	Count	1	14	100	0	0			18
	Hwy_Bridge_HAZUS_SDURS	Count	2	6	25	4,000	1,100			3
	Hwy HAZUS SDURS	Length (ft)	55,612	21	25	18,352	5,047			3
	Natural Gas Pipeline	Length (ft)	75,805	21	0	17,814	0			0
	Natural Gas Wells	Count	86	18	-	0	0			0
	rail 1000 nodes	Count	1	18		0	0			0
		Count	6	21	100	3,909	4,157			24
	Residential - Manuf. Housing	Count	297	21	100	15,386	15,965			24
		Count	1	21	100	3,579	3,806			24
		Count	1	21	100	702	746			24
•		Count	305	21	100	65,780	69,946			24
		Count	3	21	100	3,129	3,327			24
	solid waste facilities	Count		20	25	0,120	0,027			0
	transin ca	Length (ft)	19,080	21	20	4.698	0			- 6
	water trans	Count	19,000	12		4,098	0	139,833	216,612	
Browns John d						_		138,633	210,012	
Browns_Island		Count	2	6	-	0	0	_ ا	_	0
	solid_waste_facilities	Count	1	6	25	0	Ŭ	0	0	ŭ
Byron_Tract 1		Count	1	6	<u> </u>	0	0			0
		Count	1	14	100	2	2			18
	Commercial - Retail Trade	Count	1	14	100	30	33			18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	23,461	14	25	4,692	1,290	1,290	6	
	gas_oil_wells	Count	2	7	0	0	0		1	0
		Count	1	3	25	2,000	550			3
	Hwy_HAZUS_SDURS	Length (ft)	6,850	14	25	2,260	622			3
	Residential - Manuf. Housing	Count	3	14	100	177	184			24
	Residential - Single Family Dwelling	Count	10	14	100	2,699	2,869			• 24
	sewage_treat	Count	1	17	30	100,000	33,000			12
	transin_ca	Length (ft)	38,965	14		12,546	0	38,550	124,406	0
Byron_Tract 2	Boatlaunch	Count	1	4	100	100	110			0
_	bridges not in HAZUS	Count	4	14	25	2,000	550			3
	Commercial - Professional/ Technical Services	Count	1	10	50	1,064	761			18
	Commercial - Retail Trade	Count	1	10	38	230	149			14
	Delta Roads PBSJ Minor Roads	Length (ft)	14,293	10	25	2.859	786			6
	gas oil wells	Count	1	2	0	0	0			0
		Count	3	10	100	107	111			24
		Count	17	10	49	5.519	3.263			23
		Length (ft)	27,831	10	-	8,961	0	5,729	20,838	
Byron Tract 3		Count	1	4	28	1,608	884	0,. 20	20,000	10
		Count	1	4	18	506	250			6
		Length (ft)	3,543	4	25	709	195			6
		Count	107	4	29	40,992	14,354	15.684	43,815	
Cache_Haas_Tract 1	Delta Roads PBSJ Major Roads	Length (ft)	16,839	8	25	5,557	1,528	10,004	40,010	6
Outlie_Haas_Hatt I	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads		194,721	8	25 25	38,944				
	Gas Oil Production Fields	Length (ft)	3,779	8	25 0	38,944	10,710			0
		Area (Acres) Count	3,779	7	0		0			
			102	4			550			
		Count	45.070		25	2,000				3
	Noticel Con Dinaling	Length (ft)	45,679	8	0		0			0
	Natural Gas Pipeline		-1		-	l ol	. 0			0
	Natural Gas Wells	Count	2	11						
	Natural Gas Wells Residential - Manuf. Housing	Count Count	2	8	100	152	156			24
	Natural Gas Wells Residential - Manuf. Housing Residential - Single Family Dwelling	Count Count Count	2 1 18	8 8	100 39	152 4,662	156 2,309			24 19
	Natural Gas Wells Residential - Manuf. Housing Residential - Single Family Dwelling transln_ca	Count Count Count Length (ft)	18,294	8 8 8	100 39 -	152 4,662 5,890	156 2,309 0	15,252	65,884	24 19 0
Cache_Haas_Tract 2	Natural Gas Wells Residential - Manuf. Housing Residential - Single Family Dwelling transIn_ca Delta_Roads_PBSJ_Minor_Roads	Count Count Count Length (ft) Length (ft)	18,294 9,202	8 8 8 14	100 39 - 25	152 4,662 5,890 1,840	156 2,309 0 506	15,252	65,884	24 19 0 6
Cache_Haas_Tract 2	Natural Gas Wells Residential - Manuf. Housing Residential - Single Family Dwelling transIn_ca Delta_Roads_PBSJ_Minor_Roads	Count Count Count Length (ft)	18,294	8 8 8	100 39 -	152 4,662 5,890 1,840	156 2,309 0	15,252	65,884	24 19 0

										·····
	Natural Gas Wells	Count	1	14	_	0	0	ı		
	Residential - Manuf. Housing	Count	1	14	100	30	31	- 1		24
	Residential - Single Family Dwelling	Count	5	14	100	1,373	1,459			24
	transin_ca	Length (ft)	567	14	-	183	0	1,997	3,425	(
Canal Ranch	Commercial - Professional/ Technical Services	Count	1	12	100	2,862	2,833			18
	Commercial - Retail Trade	Count	1	12	42	1,878	1,260	1		18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	1,401	12	25	462	127			6
	Delta Roads PBSJ Minor Roads	Length (ft)	29,952	12	25	5,990	1,647			(
	Gas Oil Production Fields	Area (Acres)	294	12	0	0	0			(
	gas oil wells	Count	11	16	0	0	0			(
	Hwy Bridge HAZUS SDURS	Count	1	11	25	2,000	550	l		
	Hwy_HAZUS_SDURS	Length (ft)	4,670	12	25	1,541	424	ŀ		
	Natural Gas Pipeline	Length (ft)	1.065	12	0		0			
	Natural Gas Wells	Count	1	18	-	0	0			
	Religion - Churches and other Non-Profit	Count	1	12	19	4,950	2,804			
	Residential - Manuf. Housing	Count	7	12	100	332	344			2
	Residential - Single Family Dwelling	Count	3	12	100	540	574	10,564	20,757	2.
Ohiona Island			3	5	0		0	10,001	20,107	
Chipps_Island	gas_oil_wells	Count	2			100	110	<u> </u>		
Clifton Court Forebay Water	Boatlaunch	Count	1	13	100			l		1
	Commercial - Professional/ Technical Services	Count	1	13	100	394	390	l		
	Commercial - Retail Trade	Count	1	13	47	86	60	l		1
	Residential - Single Family Dwelling	Count	2	13	100	515	547			2.
	transln_ca	Length (ft)	9,886	13		3,183	0	1,107	4,278	
Coney_Island	Residential - Manuf. Housing	Count	10	17	100	507	526			2
	Residential - Single Family Dwelling	Count	66	17	100	21,414	22,770	23,296	21,921	2
Deadhorse Island	Gas_Oil_Production_Fields	Area (Acres)	201	17	0	0	0			
	gas_oil_wells	Count	3	17	0	0	Ó			
	Natural Gas Pipeline	Length (ft)	3,862	17	0	734	0			
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	17	100	9	10			2.
	Residential - Single Family Dwelling	Count	1	17	100	255	271	281	998	2.
Decker_Island	Natural Gas Pipeline	Length (ft)	8.084	3	0	1,536	0	0	1,536	
Discovery Bay	Boatlaunch	Count	1	4	100	100	110			
	Commercial - Banks	Count	1	9	22	1,148	644			
	Commercial - Entertainment and Recreation	Count	8	9	22	12,944	7,262			
	Commercial - Medical Clinics	Count	1	9	20	3,503	2,158			
		Count	· · · · · · · · · · · · · · · · · · ·	9	44	15,930	10,864			1
	Commercial - Retail Trade	Count	1	9	30	7,842	4,744			1
	Delta Roads PBSJ Minor Roads	Length (ft)	97,987	9	25	19,597	5,389			
	hc ambulatory	Count	57,007	6	17	10,007	0,000			
	Hwy HAZUS SDURS	Length (ft)	6,674	9	25	2,202	606			
	Residential - Duplex	Count	0,074	9	46	1,863	1,010			2
	Residential - Manuf. Housing	Count	1	9	100		171			2
	Residential - Maridi. Hodsing Residential - Single Family Dwelling	Count	2,799	9	44	1,080,710	570,813			2
			2,199	9	5	1,060,710	070,013	1		
	Schools_HAZUS_SDURS	Count		- 1		0		603,770	1,146,004	
	water_trans	Count	1		-	10 100		603,770	1,146,004	
Egbert_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	92,416	11	25	18,483	5,083			
	Gas_Oil_Production_Fields	Area (Acres)	3,532	11	0	0	<u>U</u>			
	gas oil wells	Count	107	11	0		0			
	Natural Gas Pipeline	Length (ft)	34,321	11	0		0			
	Natural Gas Wells	Count	33	10		0	0			
	Residential - Manuf. Housing	Count	1	11	100		64			2
	Residential - Single Family Dwelling	Count	11	11	100		3,010	l		2
	transln_ca	Length (ft)	12,394	11	-	3,991	0	8,156	33,603	
				7	25	4,500	1,238			1
Elk_Grove 1	bridges_not_in_HAZUS	Count	9	L						
Elk_Grove 1	bridges not in HAZUS Commercial - Entertainment and Recreation	Count Count	3		22		3,253			
Elk_Grove 1						5,798				1

		T								
1	Commercial - Professional/ Technical Services		1	9	44	11,814	8,057			16
	Commercial - Retail Trade	Count	1	9	30	7,782	4,708			11
]	Commercial - Wholesale Trade	Count	1	9	25	9,242	5,337			9
1	Delta_Roads_PBSJ_Major_Roads	Length (ft)	45,031	9	25	14,860	4,087			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	246,342	9	25	49,268	13,549	*		6
	Gas_Oil_Production_Fields	Area (Acres)	599	9	0	0	0			0
1	gas oil wells	Count	26	8	0	0	0			0
	hc ambulatory	Count	13	4	13	0	0			5
	hc nursing res	Count	1	3	10	0	0			5
	Hwy Bridge HAZUS SDURS	Count	6	14	25	12,000	3,300			3
	Hwy HAZUS SDURS	Length (ft)	25,676	9	25	8,473	2,330			3
	Industrial - Construction	Count	1	9	100	5,386	4,799			18
	Industrial - Heavy	Count	1	9	35	5,753	3,240			13
	Industrial - High Technology	Count	3	9	33	53,345	29,574			12
	Industrial - Light	Count	2	9	35	9,315	5,246			13
	Natural Gas Pipeline	Length (ft)	22,431	9	0	7,290	0,270			0
	Natural Gas Wells	Count	22,431	13		7,290				0
	rail 1000 nodes	Count		11		0	"			0
			10.000	9		5,410	1,488			4
	Rail_HAZUS_SDURS	Length (ft)	18,982							22
	Residential - Duplex	Count		9	46	2,166	1,174			
	Residential - Manuf. Housing	Count	27	9	100	2,061	2,131			24
	Residential - Multi-Dwellings - 5 to 9 units	Count	4	9	46	15,923	8,629			22
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	ģ	46	2,510	1,360			22
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	9	46	1,442	781			22
	Residential - Single Family Dwelling	Count	3,492	9	44	1,083,656	572,369			21
	Residential - Triplex-Quads	Count	4	9	46	5,237	2,838			22
	substation_ca	Count	1	14	25	1,000	275			0
	transin_ca	Length (ft)	42,090	9	-	10,363	0			0
	utilities	Count	1	1	-	0	0	687,408	1,347,255	0
Empire_Tract	Boatlaunch	Count	1	26	100	100	110			0
· -	Delta Roads PBSJ Minor Roads	Length (ft)	44,263	24	25	8,853	2,434			6
	gas oil wells	Count	5	22	0	0	0			0
	Residential - Manuf. Housing	Count	6	24	100	326	338			24
	Residential - Single Family Dwelling	Count					544			
Fabian_Tract			3	24	100	5121	. 044	3,426	9,790	24
	air trans		3	24 10	100	512 0		3,426	9,790	24
I -	air_trans Boatlaupch	Count	1	10		0	0	3,426	9,790	0
_	Boatlaunch	Count Count	1 1	10 12	100	0 100	0 110	3,426	9,790	0
_	Boatlaunch Commercial - Retail Trade	Count Count Count	1 1 1	10 12 12	- 100 42	0 100 346	0 110 232	3,426	9,790	0 0 15
_	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads	Count Count Count Length (ft)	1 1 1 5,136	10 12 12 12	- 100 42 25	0 100 346 1,695	0 110 232 466	3,426	9,790	0 0 15 6
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Count Count Count Length (ft) Length (ft)	1 1 1 5,136 69,256	10 12 12 12 12	- 100 42 25 25	0 100 346 1,695 13,851	0 110 232 466 3,809	3,426	9,790	0 0 15 6 6
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells	Count Count Count Length (ft) Length (ft) Count	5,136 69,256	10 12 12 12 12 12	100 42 25 25 0	0 100 346 1,695 13,851	0 110 232 466	3,426	9,790	0 0 15 6 6
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline	Count Count Count Length (ft) Length (ft) Count Length (ft)	1 1 1 5,136 69,256	10 12 12 12 12 12 11 11	- 100 42 25 25 0	0 100 346 1,695 13,851 0 345	0 110 232 466 3,809 0	3,426	9,790	0 0 15 6 6
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count	5,136 69,256	10 12 12 12 12 12 11 11 12	- 100 42 25 25 0 0	0 100 346 1,695 13,851 0 345 1,418	0 110 232 466 3,809 0 0 1,507	3,426	9,790	0 0 15 6 6 0 0
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count	1 1 1 5,136 69,256 8 1,817 4	10 12 12 12 12 12 11 11 12 12	- 100 42 25 25 0 0 100 30	0 100 346 1,695 13,851 0 345 1,418 9,396	0 110 232 466 3,809 0 0 1,507 4,369	3,426	9,790	0 0 15 6 6 0 0 24
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing	Count Count Count Length (ft) Count Length (ft) Count Length (ft) Count Count Count Count	1 1 1 5,136 69,256 8 1,817 4 2	10 12 12 12 12 12 11 12 12 12 12	- 100 42 25 25 0 0 100 30 100	0 100 346 1,695 13,851 0 345 1,418 9,396 669	0 110 232 466 3,809 0 0 1,507 4,369 694	3,426	9,790	0 0 15 6 6 0 0 24 14 24
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling	Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count	1 1 1 5,136 69,256 8 1,817 4 2 13	10 12 12 12 12 12 11 12 12 12 12 12	- 100 42 25 25 0 0 100 30 100	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587			0 0 15 6 6 0 0 24 14 24 24
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Manuf. Housing Residential - Single Family Dwelling transin_ca	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Length (ft)	1 1 1 5,136 69,256 8 1,817 4 2 13 25 24,537	10 12 12 12 12 12 11 12 12 12 12 12	- 100 42 25 26 0 0 100 30 100	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 24
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Length (ft) Count	1 1 1 5,136 69,256 8 1,817 4 2 13	10 12 12 12 12 12 11 12 12 12 12 12 12 12	- 100 42 25 25 0 0 100 30 100 100 - - 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0		39,116	0 0 15 6 0 0 24 14 24 24
	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads Commercial - Retail Trade	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Length (ft)	1 1 1 5,136 69,256 8 1,817 4 2 13 25 24,537 112	10 12 12 12 12 12 11 11 12 12 12 12 12 12	- 100 42 25 25 0 0 100 30 100 100 - - 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 1 5,136 69,256 8 1,817 4 22 13 25 24,537 112 1 29,511	10 12 12 12 12 12 11 11 12 12 12 12 12 12	- 100 42 25 25 0 0 100 30 100 - - 25 30	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678	16,775	39,116	0 0 15 6 6 0 0 0 24 14 24 24 0 6 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta Roads PBSJ Minor Roads Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 5,136 69,256 8 1,817 4 2 13 25 24,537 112 29,511 60,173	10 12 12 12 12 12 11 12 12 12 12 12 12 12	- 100 42 25 26 0 0 100 30 100 100 - 25 30 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6 6 11 1 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 1 1 1 5,136 69,256 8 1,817 4 2 2 13 25 24,537 112 1 29,511 60,173 128	10 12 12 12 12 12 11 12 12 12 12 12 12 12	- 100 42 25 26 0 0 100 30 100 - 25 30 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678	16,775	39,116	0 0 15 6 6 0 0 0 24 14 24 24 0 6 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads Commercial - Retail Trade Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 5,136 69,256 8 1,817 4 2 13 25 24,537 112 29,511 60,173	10 12 12 12 12 12 11 12 12 12 12 12 12 12	- 100 42 25 26 0 0 100 30 100 100 - 25 30 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739 12,035	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6 6 11 1 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housin Residential - Manuf. Housing Residential - Single Family Dwelling transin_ca Delta Roads PBSJ Minor Roads Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Major Roads Gas Oil Production Fields	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 1 1 1 5,136 69,256 8 1,817 4 2 2 13 25 24,537 112 1 29,511 60,173 128	10 12 12 12 12 12 11 12 12 12 12 12 12 12	- 100 42 25 26 0 0 100 30 100 - 25 30 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739 12,035	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6 6 11 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta_Roads_PBSJ_Minor_Roads Commercial - Retail Trade Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads Delta_Roads_PBSJ_Minor_Roads	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Area (Acres) Count	1 1 1 1 5,136 69,256 8 1,817 4 2 2 133 25 24,537 112 1 29,511 60,173 128	10 12 12 12 12 11 11 12 12 12 12 12 12 12	- 100 42 25 26 0 100 30 100 - - 25 30 25 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739 12,035	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678 3,309 0	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6 6 11 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin ca Delta Roads PBSJ Minor Roads Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy Bridge HAZUS SDURS	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12 12 12 12 11 11 12 12 12 12 12 12 9 9	- 100 42 25 25 0 0 100 30 100 - 25 30 25 25	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739 12,035 0 0	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678 3,309 0 0 3,850	16,775	39,116	0 0 15 6 6 0 0 24 14 24 24 0 6 6 11 6
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housing Residential - Single Family Dwelling transin_ca Delta Roads PBSJ Minor Roads Commercial - Retail Trade Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS	Count Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12 12 12 12 11 11 12 12 12 12 12 12 9 9	- 100 42 25 25 0 0 100 30 100 - 25 30 25 25 0 0	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 9,739 12,035 0 0 14,000 6,014	0 110 232 466 3,809 0 0 1,507 4,369 694 5,587 0 6 823 2,678 3,309 0 0 3,850	16,775	39,116	0 0 15 6 6 0 0 0 24 14 24 24 0 6 6 6 0 0 3 3 3
Fay Island	Boatlaunch Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil wells Natural Gas Pipeline Residential - Duplex Residential - Institutional and Dormitory Housin Residential - Manuf. Housing Residential - Single Family Dwelling transin ca Delta Roads PBSJ Minor Roads Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS Natural Gas Pipeline	Count Count Count Length (ft) Count Length (ft) Count Count Count Count Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 12 12 12 12 11 11 12 12 12 12 12 9 9 9 9	- 100 42 25 25 0 0 100 100 100 - 25 30 25 25 0 0 0	0 100 346 1,695 13,851 0 345 1,418 9,396 669 5,255 6,041 22 1,360 0 0 14,000 0 14,000 6,014	0 110 232 466 3,809 0 1,507 4,369 694 5,587 0 6 823 2,678 3,309 0 0 3,850	16,775	39,116	0 0 15 6 6 0 0 0 24 14 24 24 0 6 6 6 0 0 3 3 3

	Residential - Manuf. Housing	Count	4	9	100	156	161	1		
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	9	46	47	25	1		
	Residential - Single Family Dwelling	Count	17	9	44	4,068	2,149	16,305	52,804	
Gliole District	Delta Roads PBSJ Major Roads	Length (ft)	7,030	13.	25	2,320	638			
_	Delta Roads PBSJ Minor Roads	Length (ft)	900	13	25	180	49			
	Hwy HAZUS SDURS	Length (ft)	267	13	25	88	24			
	Rail HAZUS SDURS	Length (ft)	7,101	13	25	2,024	557			
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	13	100	11	11			
	Residential - Single Family Dwelling	Count	4	13	100	1,211	1,287			
	transin ca	Length (ft)	7,488	13	-	1,844	0	2,566	7,676	
Grand Island	Agriculture	Count	1	19	100	8,486	8,028		.,	
	Boatlaunch	Count	1	19	100	100	110	1		
	Commercial - Banks	Count	1	19	100	1,084	1,192			
	Commercial - Professional/ Technical Services	Count	1	19	100	6,378	7,016	1		
	Commercial - Retail Trade	Count	- 1	19	100	6,638	7,302			
	Delta Roads PBSJ Major Roads	Length (ft)	3,301	19	25	1,089	300			
	Delta Roads PBSJ Minor Roads	Length (ft)	169,392	19	25	33,878	9,317	l		
	Gas Oil Production Fields	Area (Acres)	2,801	19	20	33,570	3,517			<u> </u>
	gas oil wells	Count	96	19	ŏ	0	-			
	Hwy Bridge HAZUS SDURS	Count		7	25	4.000	1,100			
	Hwy HAZUS SDURS	Length (ft)	75,585	19	25	24,943	6,859			
	Industrial - Light	Count	75,565	19	100	39,675	37,358			
	Natural Gas Pipeline	Length (ft)	11,589	19	100	2,202	0 0			
	Natural Gas Wells	Count	11,569	18	— Ч	2,202	- 0			
	Residential - Duplex	Count	5	19	100	2,526	2,686			ļ
	Residential - Jupiex Residential - Institutional and Dormitory Housing		1	19	100	5,649	6,007			
	Residential - Manuf. Housing	Count			100			:		
	Residential - Multi-Dwellings- 10 to 19 units		39	19		2,070	2,148			
	Residential - Single Family Dwelling	Count	366	19	100	3,597	3,825			
	Schools HAZUS SDURS	Count Count	300	19 26		97,203	103,359			
					100	1,180	1,194			
	substation_ca transln_ca	Count	40.050	24	25	1,000	275			
		Length (ft)	48,858	19		12,030	0	400 075	050.070	
In a through Transit 4	US_cell_towers	Count		8		250	0	198,075	253,978	
lastings_Tract 1	Commercial - Retail Trade	Count	1	13	47	6	4		_	
	Gas_Oil_Production_Fields	Area (Acres)	45	13	0	0	0	4	6	
Hastings_Tract 2	Commercial - Retail Trade	Count	1	13	100	182	200	l l		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	33,039	13	25	6,608	1,817			
	Gas_Oil_Production_Fields	Area (Acres)	464	13	0	0	0	l l		
	gas_oil_wells	Count	38	13	0	0	. 0	ł		
	Natural Gas Wells	Count	3	15	-	0	0			
	Residential - Manuf. Housing	Count	1	13	100	66	68			
	Residential - Single Family Dwelling	Count	11	13	100	3,024	3,216			
	transin_ca	Length (ft)	11,505	13	-	3,704	0	5,301	13,584	
lolland_Land	Delta_Roads_PBSJ_Major_Roads	Length (ft)	119	15	25	39	11			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	196	15	25	39	11			
	gas_oil_wells	Count	2	15	0	0	0	1		
	Hwy_HAZUS_SDURS	Length (ft)	9,792	15	25	3,231	889			
	Petroleum Pipelines	Length (ft)	96	15	0	20	0	Į.		
	Residential - Single Family Dwelling		306							
	transin_ca	Length (ft)	78	15	-	19	Ö	1,216	3,637	
lolland_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	52,160	16	25	10,432	2,869			
	gas_oil_wells	Count	11	16	Ó	0	0	ļ		
	Hwy_Bridge_HAZUS_SDURS	Count	1	11	25	2,000	550			
	Residential - Manuf. Housing	Count	4	16	100	192	199			
	Residential - Single Family Dwelling	Count	12	16	100	3,164	3,364	6,982	15,787	
onker_Bay_Club	Gas Oil Production Fields	Area (Acres)	46	7	0	0,101	0,001			
TOTIKET DAY CIUD										

	Petroleum Pipelines	Length (ft)	4,793	7	0.	1,006	0	I	I	(
	Residential - Single Family Dwelling	Count	1	7	37	267	119	119	2,109	18
Hotchkiss_Tract 1	Boatlaunch	Count	1	10	100	100	110			(
-	Commercial - Professional/ Technical Services		1	10		3,034	2,119			1
	Commercial - Retail Trade	Count	1	10	34	670	420		- 1	1:
	Delta Roads PBSJ Minor Roads	Length (ft)	55,963	10		11,193	3,078		ı	(
	Gas Oil Production Fields	Area (Acres)	46	10	0	0	0	i	- 1	
	gas oil wells	Count	26	10		0	0			(
	Hwy Bridge HAZUS SDURS	Count	1	9	25	2,000	550			
	Natural Gas Pipeline	Length (ft)	21,406	10		4,067	0			(
	Natural Gas Wells	Count	5	9		0	0			(
	Residential - Duplex	Count	6	10		2,502	1,437			23
	Residential - Manuf. Housing	Count	97	10		5.061	5,233		1	24
	Residential - Single Family Dwelling	Count	303	10		82,611	46,602	Į.		22
	Residential - Triplex-Quads	Count	2	10		936	537		1	23
	transin ca	Length (ft)	45,599	10		14,681	0	60,087	126,855	
lotchkiss Tract 2	Delta Roads PBSJ Minor Roads	Length (ft)	4,378	10		876	241	00,007	120,000	
	Gas Oil Production Fields	Area (Acres)	1,032	10		0,0			. }	
	gas oil wells	Count	1,032	9		0			ł	(
	Natural Gas Pipeline	Lenath (ft)	2,370	10	_	450		241	1,326	
lersey_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,573	17		7,515	2,067	241	1,320	(
oracy_iaiaitu	Gas Oil Production Fields	Area (Acres)	631	17		7,515 0	2,067		ļ	
	gas oil wells			15		0		•		
	Natural Gas Pipeline	Count	15	17			0			
	Natural Gas Pipeline Natural Gas Wells	Length (ft) Count	11,881	17		7,426	0		- 1	(
			3			0			- }	(
	Residential - Manuf. Housing	Count	1	17		65	67		- 1	24
	Residential - Single Family Dwelling	Count	4	17		1,065	1,132		- 1	24
	solid_waste_facilities transin_ca	Count	00.500	22		0.545	0	0.000		
longs Treet Union and Lawren		Length (ft)	26,539	17		8,545	0	3,266	24,614	(
ones_Tract-Upper_and_Lower	bridges_not_in_HAZUS	Count	1	0		500	0	1	ļ.	(
	Commercial - Professional/ Technical Services	Count	1	18		478	526			18
	Commercial - Retail Trade	Count	100.001	18		88	97		Į.	18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	122,831	18		24,566	6,756			. (
	Gas_Oil_Production_Fields	Area (Acres)	106	18		0	0	l		
	gas_oil_wells	Count	32	19		0	0			
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	27,507	18		5,776	0		Į.	
	Hwy_Bridge_HAZUS_SDURS	Count	1	17		2,000	550	I	Į.	
	mokelumne_aqueduct_pipe	Length (ft)	82,207	18		411,035	34,363		l.	
	Natural Gas Pipeline	Length (ft)	15,032	18	O O	24,202	. 0	· [Į	(
	Natural Gas Storage	Count	1	21		0	0	- 1	į	(
	Natural Gas Wells	Count	1	20		0	0	- 1	į	(
	Rail_Bridge_HAZUS_SDURS	Count	1	0		1,000	0	l	Į	
	Rail_HAZUS_SDURS	Length (ft)	28,464	18		8,112	8,800	ŀ	Į.	1
	Residential - Duplex	Count	2	18		872	927	l	Į	24
	Residential - Institutional and Dormitory Housing		4	18		25,881	27,520	l	Ĺ	24
	Residential - Manuf. Housing	Count	9	18	100	401	416	ŀ	Į	24
	Residential - Single Family Dwelling	Count	13	18	100	2,561	2,723	ŀ	[24
	US_cell_towers	Count	2	14	-	500	0	82,676	507,972	(
asson_District	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,090	8		618	170			f
	gas_oil_wells	Count	4	9		0	0		ſ	
	Residential - Single Family Dwelling	Count	16	8		3,195	1,688	1	ſ	21
	transin_ca	Length (ft)	9,505	8		2,340	0	1,857	6,153	(
King_lsland	Boatlaunch	Count	1	17	100	100	110			C
	Commercial - Entertainment and Recreation	Count	1	18	100	1,772	1,949	J	ŀ	18
	Commercial - Professional/ Technical Services		1	18	100	1,866	2,053		ŀ	18
	Commercial - Retail Trade	Count		18	100	13,544	14,898	l	ł	18
				18		. 0,0	,000		1	10

1										
	Gas_Oil_Production_Fields	Area (Acres)	177	18	0	0	0			
	gas_oil_wells	Count	10	18	0		0			0
	Hwy_Bridge_HAZUS_SDURS	Count	2	18	25		1,100		ļ.	3
	Natural Gas Wells	Count	2	18	-	0	0			0
	Residential - Duplex	Count	1	18	100	281	298	:		24
	Residential - Institutional and Dormitory Housing		1	18	100	5,334	5,672			24
	Residential - Manuf. Housing	Count	63	18	100	3,200	3,320			24
	Residential - Single Family Dwelling	Count	25	18	100	5,039	5,358			24
	water_trans	Count	1	21	-	0	0	37,209	44,049	0
Libby_McNeil_Tract 1	Commercial - Professional/ Technical Services	Count	1	8	41		739			15
		Count	1	8	26		779			9
	Communication_HAZUS_SDURS	Count	1	11	100	118	130			18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	5,110	8	25		464			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	10,178	8	25	2,036	560			6
	Gas Oil Production Fields	Area (Acres)	143	8	0	0	0			0
	gas oil wells	Count	7	9	0	0	0			0
	Residential - Duplex	Count	4	8	43	1,746	887			21
	Residential - Manuf. Housing	Count	2	8	100	122	125			24
	Residential - Single Family Dwelling	Count	41	8	39	11,106	5,328	9,011	19,259	19
Libby_McNeil_Tract 2	Boatlaunch	Count	1	7	100		110			0
	Commercial - Retail Trade	Count	1	8	30		1			11
	Delta Roads PBSJ Minor Roads	Length (ft)	345	8	25		19			6
	Gas Oil Production Fields	Area (Acres)	43	8	0		0			0
	Residential - Single Family Dwelling	Count	4	8	44	1,032	545	675	1,203	21
Liberte Island	Delta Roads PBSJ Minor Roads	Length (ft)	35.789	13	25		1,968		.,	6
Elberte iouria	Gas Oil Production Fields	Area (Acres)	744	13	0		1,000			
	gas oil wells	Count	24	13	0		n n			<u>-</u>
	Hwy Bridge HAZUS SDURS	Count		12	25		550			3
	Natural Gas Pipeline	Length (ft)	28,636	13	0		330	2,518	14,599	
Lincoln_Village_Tract	Commercial - Entertainment and Recreation	Count	20,000	6	18		5,816	2,010	14,000	6
Lincom_village_rract		Count	1	6	38		4,650			14
	Commercial - Retail Trade	Count	- 1	6	23		7,891			
	Delta Roads PBSJ Major Roads	Length (ft)	5,052	6	25		458			
	Delta Roads PBSJ Minor Roads	Length (ft)	151,475	6	25		8,331			6
	hc ambulatory	Count	101,475	9	20		0,001			
	Hwy Bridge HAZUS SDURS	Count	6	7	25		3,300			3
	Hwy HAZUS SDURS		5,677	6	25		515			3
	Religion - Churches and other Non-Profit	Length (ft)	3,077				2,150			5
	Residential - Duplex	Count Count	68	6	13 39		2,150			18
		Count	2	6	39		1,638			18
			34	6			1,638 37,117			18
	Residential - Multi-Dwellings - 5 to 9 units	Count	34		39					18
	Residential - Multi-Dwellings - 50+ units	Count		6	39 39		46,409			18
	Residential - Multi-Dwellings- 10 to 19 units	Count	2				9,551			
	Residential - Multi-Dwellings- 20 to 49 units	Count	3,429	6	39		6,832			18
	Desidential Circle Confile Desilled			6	37	919,649	410,715			18
	Residential - Single Family Dwelling	Count					41 675			
	Residential - Triplex-Quads	Count	76	6	39	32,369	14,812			18
	Residential - Triplex-Quads Schools_HAZUS_SDURS	Count Count		6 3			402	E62.047	4 202 742	3
	Residential - Triplex-Quads Schools_HAZUS_SDURS water_trans	Count Count Count	76	6 3 5	39 7	32,369 1,180 0	402 0	563,017	1,262,742	3
Lisbon_District	Residential - Triplex-Quads Schools_HAZUS_SDURS water_trans Airports_HAZUS_SDURS	Count Count Count Count	76 9 1	6 3 5 14	39 7 - 25	32,369 1,180 0 6,431	402 0 1,769	563,017	1,262,742	3 0 3
Lisbon_District	Residential - Triplex-Quads Schools HAZUS SDURS water_trans Airports HAZUS SDURS Delta Roads PBSJ Major Roads	Count Count Count Count Length (ft)	76 9 1 1 20,168	6 3 5 14 16	39 7 - 25 25	32,369 1,180 0 6,431 6,655	402 0 1,769 1,830	563,017	1,262,742	3
Lisbon_District	Residential - Triplex-Quads Schools HAZUS SDURS water_trans Airports HAZUS SDURS Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Count Count Count Count Length (ft) Length (ft)	76 9 1 1 20,168 25,630	6 3 5 14 16	39 7 - 25 25 25	32,369 1,180 0 6,431 6,655 5,126	402 0 1,769	563,017	1,262,742	3
Lisbon_District	Residential - Triplex-Quads Schools HAZUS SDURS water_trans Airports HAZUS SDURS Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields	Count Count Count Count Length (ft) Length (ft) Area (Acres)	76 9 1 1 20,168 25,630 794	6 3 5 14 16 16	39 7 - 25 25 25 25	32,369 1,180 0 6,431 6,655 5,126	402 0 1,769 1,830 1,410	563,017	1,262,742	3 3 6
Lisbon_District	Residential - Triplex-Quads Schools HAZUS SDURS water trans Airports HAZUS SDURS Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells	Count Count Count Count Length (ft) Length (ft) Area (Acres) Count	76 9 1 1 20,168 25,630 794 21	6 3 5 14 16 16 16	39 7 - 25 25 25 0 0	32,369 1,180 0 6,431 6,655 5,126 0	402 0 1,769 1,830 1,410 0	563,017	1,262,742	3
Lisbon_District	Residential - Triplex-Quads Schools_HAZUS_SDURS water_trans Airports_HAZUS_SDURS Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields gas_oil_wells Rail_HAZUS_SDURS	Count Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft)	76 9 1 1 20,168 25,630 794	6 3 5 14 16 16 16 16	39 7 - 25 25 25 0 0	32,369 1,180 0 6,431 6,655 5,126 0 0 4,671	402 0 1,769 1,830 1,410 0 0 1,284	563,017	1,262,742	3 6 6 0 0
Lisbon_District	Residential - Triplex-Quads Schools HAZUS SDURS water_trans Airports HAZUS SDURS Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Rail HAZUS SDURS Residential - Duplex	Count Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Count	76 9 1 1 20,168 25,630 794 21	6 3 5 14 16 16 16 16 16	39 7 - 25 25 25 0 0 0 25	32,369 1,180 0 6,431 6,655 5,126 0 0 4,671 279	402 0 1,769 1,830 1,410 0 0 1,284 297	563,017	1,262,742	3 6 6 0 0 0
Lisbon_District	Residential - Triplex-Quads Schools_HAZUS_SDURS water_trans Airports_HAZUS_SDURS Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields gas_oil_wells Rail_HAZUS_SDURS	Count Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft)	76 9 1 1 20,168 25,630 794 21	6 3 5 14 16 16 16 16	39 7 - 25 25 25 0 0	32,369 1,180 0 6,431 6,655 5,126 0 0 4,671 279 431	402 0 1,769 1,830 1,410 0 0 1,284	563,017	1,262,742	3 6 6 0 0

ı	Durane, HAZUS SPURS	Count		44	1 25	26.674	10,085	1		· ·
	Runway_HAZUS_SDURS	Count	16 494	14 16		36,674 3,985	10,065			
	transin_ca	Length (ft)	16,184	9	<u> </u>		0	31,502	78,015	-
	US_cell_towers	Count	. 1			250		31,502	70,015	
Little Holland Tract	Gas_Oil_Production_Fields	Area (Acres)	88	12			0	0		0
	gas_oil_wells	Count	2	12				U	U	18
Little_Egbert□_Tract		Count	1	15		2	2			18
	Commercial - Retail Trade	Count		15		2	2			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	150	15		49	14			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	19,720	15			1,085			6
	Gas_Oil_Production_Fields	Area (Acres)	1,263	15			0			0
	gas_oil_wells	Count	27	16			0			0
	Hwy_Bridge_HAZUS_SDURS	Count	7 105	4	25		550			3
	Hwy_HAZUS_SDURS	Length (ft)	5,495	15			499			3
	Natural Gas Pipeline	Length (ft)	13,697	15			0			0
	Natural Gas Wells	Count	2	4		0	0			0
	Residential - Duplex	Count	1	15		203	215			24
	Residential - Manuf. Housing	Count	5	15		215	223			24
	Residential - Single Family Dwelling	Count	36	15		9,831	10,454	13,043	21,346	
Lower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	4,657	9		931	256			6
	gas_oil_wells	Count	1	4	0		0			0
		Count	1	9			31			24
	Residential - Single Family Dwelling	Count	1	9		188	106	393	1,149	
Mandeville_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,062	23		5,212	1,433			6
	gas_oil_wells	Count	10	25	0	0	0	1,433	5,212	0
McCormack_Williamson_Tract	Communication HAZUS SDURS	Count	2	10	100	236	260			18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,822	12	25	2,964	815			6
	Gas Oil Production Fields	Area (Acres)	. 885	12	0	0	0			0
	Gas Oil Production Fields	Area (Acres)	2,055	22	0	0	0			0
	gas oil wells	Count	20	12		Ö	0			0
	Natural Gas Pipeline	Length (ft)	4,699	12	0	893	Ó	1,075	4,093	0
McDonald Tract	Delta Roads PBSJ Minor Roads	Length (ft)	67,360	22	25	13,472	3,705			6
	gas oil wells	Count	105	20			Ö			0
	Natural Gas Pipeline	Length (ft)	20,905	22		6,376	0			0
*		Count	3	22			17,437	21,141	36,246	24
McMullin_Ranch-River_Junction T		Count	1	9		60	38	_ ,		12
	Delta Roads PBSJ Major Roads	Length (ft)	23,374	9			2,121			6
	Delta Roads PBSJ Minor Roads	Length (ft)	36,136	9			1,987			6
	gas oil wells	Count	20,100	9			1,007			
	Hwy_Bridge_HAZUS_SDURS	Count	1	9		2,000	550			3
	Natural Gas Pipeline	Length (ft)	11,554	9			0			l ö
	Residential - Manuf. Housing	Count	11,004	9		-,	371			24
	Residential - Single Family Dwelling	Count	63	9		16,704	9,423			22
	transin ca	Length (ft)	23,357	9		5,751	0,120	14,490	42,818	
Medford Island	Delta Roads PBSJ Minor Roads	Length (ft)	28,314	19			1,557	14,400	-12,010	6
Medicia_isiand		Count	20,014	19		2,897	3,080	4,637	8,559	24
Merritt Island		Count	 	19	1		3,060 854	4,037	0,008	18
Merritt Islanu	Commercial - Professional/ Technical Services Commercial - Retail Trade			14		170	85 4 187			18
		Count	20.405	14						18
	Delta Roads PBSJ Major Roads	Length (ft)	20,405				1,852			6
	Delta Roads PBSJ Minor Roads	Length (ft)	64,790	14			3,563 0			
	Gas_Oil_Production_Fields	Area (Acres)	185	14			0			
	gas oil wells	Count	15	14			0			0
	Residential - Manuf. Housing	Count	4	14			279			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	<u>-</u> 1	14			191	07.644	40.00	24
	Residential - Single Family Dwelling	Count	76	14			20,989	27,914	40,825	
Middle_Roberts_Island	Boatlaunch	Count	3	19			330			0
	bridges not in HAZUS Commercial - Personal and Repair Services	Count		12		500	138			3 15
		Count		13	43	1,226	829			. 15

•				40	100	716	709			18
		Count	1]	13	100	716	395			17
	Commercial - Retail Trade	Count		13	47	566	395			0
	Dams_HAZUS_SDURS	Count	1	9	0	0 405				6
1	Delta_Roads_PBSJ_Major_Roads	Length (ft)	27,590	13	25	9,105	2,504			6
-	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	303,675	13	25	60,735	16,702	i		0
	Gas_Oil_Production_Fields	Area (Acres)	3,142	13	0		0			0
	gas_oil_wells	Count	104	12	0		0			
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	24,055	13	0	- 1111	0	l l		0
	Hwy_Bridge_HAZUS_SDURS	Count	1	8	25	2,000	550	i		3
	Hwy_HAZUS_SDURS	Length (ft)	44,694	13	25	14,749	4,056			3
	mokelumne_aqueduct_pipe	Length (ft)	66,109	13	0	330,544	0			0
	Natural Gas Pipeline	Length (ft)	64,386	13	0	12,233	0			0
	Natural Gas Wells	Count	14	5	-	0	0			0
	Petroleum Pipelines	Length (ft)	9,151	13	0		O O			0
	Rail_HAZUS_SDURS	Length (ft)	27,694	13	25	7,893	2,170			1
	Residential - Duplex	Count	8	13	100	3,419	3,635			24
	Residential - Institutional and Dormitory Housing		6	13	34	36,474	18,376			16
	Residential - Manuf. Housing	Count	37	13	100	1,937	2,009			24
İ	Residential - Single Family Dwelling	Count	145	13	100	34,163	36,326			24
1	Schools_HAZUS_SDURS	Count	1	18	100	1,180	1,194			18
	solid_waste_facilities	Count	1	9	25	0	0			0
	transin_ca	Length (ft)	166,253	13	-	40,934	0	89,924	565,645	0
Netherlands 1	Delta Roads PBSJ Minor Roads	Length (ft)	430	13	25	86	24			6
	Gas Oil Production Fields	Area (Acres)	221	13	0	0	0			0
	gas oil wells	Count	10	14	0	0	0			0
	Hwy HAZUS SDURS	Length (ft)	9,494	13	25	3,133	862			3
<u> </u>	Residential - Multi-Dwellings- 10 to 19 units	Count	1	· 13	100	21	22			24
	Residential - Single Family Dwelling	Count	2	13	100	701	745	1,652	3,940	24
Netherlands 2	air trans	Count	1	15	-	0	0			0
	Commercial - Professional/ Technical Services	Count	1	16	100	312	343			18
	Commercial - Retail Trade	Count	1	16	100	2.510	2,761			18
	Delta Roads PBSJ Major Roads	Length (ft)	25,540	16	25	8,428	2,318			6
	Delta Roads PBSJ Minor Roads	Length (ft)	326,219	16		65,244	17,942			6
	Fire Stations SDURS	Count	2	12	35	3,540	2,508			13
	Gas Oil Production Fields	Area (Acres)	885	16	0		O O			0
	gas_oil_wells	Count	79	17	ō		0			Ö
	Hazmat_HAZUS_SDURS	Count	1	13		0	ō			Ö
	hc ambulatory	Count	1	20	100	0	Ö			18
	Hwy Bridge HAZUS SDURS	Count	1	2	25	2,000	550			3
	Hwy HAZUS SDURS	Length (ft)	70,321	16		23,206	6,382			3
	Natural Gas Wells	Count	1	18		20,200	0,002			Ö
	rail 1000 nodes	Count	À	17	 	ň	ň	1		ŏ
	Rail HAZUS SDURS	Length (ft)	7,594	16	25	2,164	595	1		1
	Residential - Institutional and Dormitory Housing		7,094	16	100	6,960	7,401			24
	Residential - Manuf. Housing	Count	8	16	100	497	515	1		24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	16			1,766	1		24
	Residential - Single Family Dwelling	Count	294	16	100		82,908	1		24
	Schools HAZUS SDURS	Count	294	6	110		1,155	ł		4
	solid waste facilities	Count	2	17	25	2,360	1,100	127,144	196,851	0
			. 1	10		3,606	2,340	121,144	190,001	17
		C4		10	46	3,500	∠,3 4 0			
New_Hope_Tract	Agriculture	Count			400	000	000	ı		Λ.
New_Hope_Tract	Agriculture Boatlaunch	Count	2	13	100		220			0
New_Hope_Tract	Agriculture Boatlaunch Commercial - Professional/ Technical Services	Count Count		13 10	47	640	447			17
New_Hope_Tract	Agriculture Boatlaunch Commercial - Professional/ Technical Services Commercial - Retail Trade	Count Count Count	2 1 1	13 10 10	47 34	640 2,096	447 1,314			17 12
New_Hope_Tract	Agriculture Boatlaunch Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads	Count Count Count Length (ft)	2 1 1 30,583	13 10 10 10	47 34 25	640 2,096 10,092	447 1,314 2,775			17 12 6
New_Hope_Tract	Agriculture Boatlaunch Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Count Count Count Length (ft) Length (ft)	2 1 1 30,583 70,404	13 10 10 10 10	47 34 25 25	640 2,096 10,092 14,081	447 1,314			17 12 6 6
New_Hope_Tract	Agriculture Boatlaunch Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads	Count Count Count Length (ft)	2 1 1 30,583	13 10 10 10	47 34 25	640 2,096 10,092 14,081 0	447 1,314 2,775			17 12 6

1	Li Bul Wattie esuse					0.000	4 050			
	Hwy_Bridge_HAZUS_SDURS	Count	3	8	25	6,000	1,650			3
	Hwy_HAZUS_SDURS	Length (ft)	20,018	10	25	6,606	1,817			3
	Natural Gas Pipeline	Length (ft)	44,655	10	0	8,485	0			0
	Natural Gas Wells	Count	3	12	-	0	0			0
	Rail_HAZUS_SDURS	Length (ft)	5,103	10	25	1,454	400			1
	Residential - Duplex	Count	1	10	48	855	491			23
	Residential - Manuf. Housing	Count	100	10	100	5,171	5,346			24
	Residential - Single Family Dwelling	Count	137	10	47	28,071	15,835			22
	solid_waste_facilities	Count	1	3	25	0	0			0
	US_cell_towers	Count	3	6		750	0			0
	water_trans	Count	1	9	-	0	0	36,508	88,106	0
Orwood_Tract	Commercial - Professional/ Technical Services	Count	1	16	100	768	845			18
	Commercial - Retail Trade	Count	1	16	100	54	59			18
1	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,805	16	25	4,961	1,364			6
	gas_oil_wells	Count	3	18	0	0	0			0
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	14,840	16	0	3,116	0			0
	mokelumne_aqueduct_pipe	Length (ft)	40,546	16	-	202,729	16,948			1
	Natural Gas Pipeline	Length (ft)	6,497	16	0	1,819	0			0
1	Residential - Manuf. Housing	Count	1	16	100	47	48			24
	Residential - Single Family Dwelling	Count	89	16	100	33,962	36,112			24
	transin_ca	Length (ft)	11,544	16	-	3,717	0	55,377	251,172	0
Palm_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,442	17	25	4,888	1,344			6
	Gas Oil Production Fields	Area (Acres)	100	17	0	0	0			0
	gas oil wells	Count	3	18	0	0	0			0
	Natural Gas Pipeline	Length (ft)	27,094	17	0	7,586	Ő			0
	Rail HAZUS SDURS	Length (ft)	12,627	17	25	3,599	990			1
	Residential - Manuf. Housing	Count	2	17	100	102	106			24
	Residential - Single Family Dwelling	Count	13	17	100	4,263	4,533			24
	transin ca	Length (ft)	6.595	17	_	2,124	0	6.973	22.562	. 0
Paradise Junction	Delta_Roads_PBSJ_Major_Roads	Length (ft)	2,949	9	25	973	268			6
	Delta Roads PBSJ Minor Roads	Length (ft)	32,791	9	25	6.558	1,804			6
	gas oil wells	Count	7	10	0	0	0			ō
	Hwy Bridge HAZUS SDURS	Count	3	10	25	6,000	1,650			3
	Hwy HAZUS SDURS	Length (ft)	1,557	9	25	514	141			3
	Natural Gas Wells	Count	1	12		0,1	0			ő
	Prison	Count	1	5	15	25,000	4,125			5
	Rail HAZUS SDURS	Length (ft)	9,339	9	25	2,662	732			1
	Residential - Institutional and Dormitory Housing		13	9	23	73,761	28,831			11
	Residential - Manuf. Housing	Count	1	9	100	69	71			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	9	48	15	9			23
	Residential - Single Family Dwelling	Count	25	9	47	5,246	2,959			22
	substation ca	Count	20	8	25	2,000	550			0
	transin ca	Length (ft)	32,461	9	25	7,992	330	41,139	130,789	0
Pescadero	bridges not in HAZUS	Count	32,401	9	25	500		41,139	130,109	
Festauelo		Count	 	9	25		138	1		3 17
			 	_	47	2,490	1,739	l		
1	Commercial - Retail Trade	Count	0.405	9	34	2,156	1,352	ı		12
1	Delta Roads PBSJ Major Roads	Length (ft)	9,165	9	25	3,025	832	l	i	6
1	Delta Roads PBSJ Minor Roads	Length (ft)	135,546	9	25	27,109	7,455			6
	Gas Oil Production Fields	Area (Acres)	21	9	0	0	0	l		0
	gas_oil_wells Hazmat HAZUS SDURS	Count	- 13	7	0	0	Ó			0
	IDAZIDAL BAZUS SDUKS	Count	7	4 9		0 000	0	l		0
		O		O.	25	26,000	7.150			3
1	Hwy Bridge HAZUS SDURS	Count	13					ı		
	Hwy_Bridge_HAZUS_SDURS Hwy_HAZUS_SDURS	Length (ft)	29,651	9	25	9,785	2,691			3
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS Natural Gas Pipeline	Length (ft) Length (ft)	29,651 5,130	9	25 0	9,785 975	2,691 0			3
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS Natural Gas Pipeline Petroleum Pipelines	Length (ft) Length (ft) Length (ft)	29,651 5,130 6,138	9 9 9	25 0 0	9,785 975 1,289	2,691 0 0			3
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS Natural Gas Pipeline	Length (ft) Length (ft)	29,651 5,130	9	25 0	9,785 975	2,691 0			3

	Residential - Multi-Dwellings- 10 to 19 units	Count			40		050			
	Residential - Multi-Dwellings- 10 to 19 units Residential - Single Family Dwelling	Count	107	9	48		352	i i		2
		Count	167	9	47		24,751			2
	sewage_treat	Count	20 00 4	8	30		33,000			1
	transin_ca US cell towers	Length (ft)	22,904	9		5,639	0			
		Count	1	0	- 1	250	0	24.50		
B. (B .	utilities	Count	1	17	-	0	0	81,456	225,692	
Peter Pocket	Gas_Oil_Production_Fields	Area (Acres)	600		0		0			
	gas_oil_wells	Count	9	10	0		0	1		
	Natural Gas Pipeline	Length (ft)	5,700	10	0	1,083	0			
	Natural Gas Wells	Count	3	11	- '	0	0			
	Residential - Manuf. Housing	Count	1	10	100	24	25			2
	Residential - Single Family Dwelling	Count	3	10	47	753	425			2
	transin_ca	Length (ft)	864	10	-	278	0	450	2,138	
Pico_Naglee_Tract	Commercial - Entertainment and Recreation	Count	6	10	26	12,606	7,349			
	Commercial - Personal and Repair Services	Count	8	10	32	15,238	9,387			
	Commercial - Professional and Technical Service	Count	2	10	47	34,168	23,866			
	Commercial - Retail Trade	Count	2	10	34		31,222			—
	Commercial - Wholesale Trade	Count	6	10	29	29,286	17,557			
	Delta Roads PBSJ Major Roads	Length (ft)	40.058	10	25	13,219	3,635	İ		
	Delta Roads PBSJ Minor Roads	Length (ft)	113,277	10	25	22,655	6,230	l		
	gas oil wells	Count	14	9	20	22,000	0,230			ļ
	Hazmat HAZUS SDURS	Count	14	13	· U	0	- 0	1		
	hc ambulatory	Count	1		22	0	0			
	hc nursing res	Count	1	9				į		
	Hwy Bridge HAZUS SDURS		1		18	0	0	l l		ļ
		Count	3	4	25	6,000	1,650			
	Hwy_HAZUS_SDURS	Length (ft)	3,464	10	25	1,143	314	i		
	Industrial - Construction	Count	1	10	100	8,902	7,932			•
	Industrial - Heavy	Count	. 5	10	39	31,725	18,426	i		
	Industrial - Light	Count	1	10	37	4,748	2,716			
	Industrial - Metals, Minerals Processing	Count	1	10	42		8,113	1		
	Natural Gas Pipeline	Length (ft)	42,028	10	0	7,985	0			
	Police Stations HAZUS SDURS	Count	1	9	27	4,130	2,780	l		
	rail_1000_nodes	Count	1	7	-	0	0	l		
	Rail_HAZUS_SDURS	Length (ft)	2,786	10	25	794	218			
	Religion - Churches and other Non-Profit	Count	1	10	15	3,078	1,676			
	Residential - Duplex	Count	2	10	48	1,235	709			
	Residential - Manuf. Housing	Count	16	10	100	887	917	1		2
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	10	48	51	29	1		
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	10	48	47	27	- 1		
	Residential - Single Family Dwelling	Count	349	10	47	108,678	61,307			- 2
	substation ca	Count	2	7	25	2,000	550			•
	transin ca	Length (ft)	67,480	10		16,614	0			
	US cell towers	Count	1	9		250	~			
	utilities	Count		11		230	<u>ŏ</u>	206,610	388,892	
Pierson_Tract	Commercial - Personal and Repair Services	Count		16	100	3,320	3,652	200,010	300,092	1
		Count		16	100					
	Commercial - Professional/ Fectifical Services	Count	1			2,298	2,528			1
	Communication HAZUS SDURS		<u> </u>	16	100	998	1,098			
		Count	44.404	14	100	354	389	- 1		
	Delta Roads PBSJ Major Roads	Length (ft)	14,424	16	25	4,760	1,309	ŀ		
	Delta Roads PBSJ Minor Roads	Length (ft)	111,143	16	25	22,229	6,113			
	Fire_Stations_SDURS	Count		6	17	1,770	1,044			
	Gas_Oil_Production_Fields	Area (Acres)	322	16	0	0	0			
	gas_oil_wells	Count	18	17	0	0	0	1		
	hc_ambulatory	Count	1]	3	13	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	2	12	25	4,000	1,100	ļ		
	History MAZINE COURCE	Longth (ft)	47 005	40	0.5			1		
	Hwy_HAZUS_SDURS Residential - Duplex	Length (ft) Count	17,085	16 16	25	5,638	1,551	- 1		

I	Residential - Manuf. Housing	Count	19	16	100	941	976	ı	1	24
	Residential - Manut. Housing Residential - Single Family Dwelling	Count	163	16		33,653	35,784			24
	Residential - Single Family Dwelling Residential - Triplex-Quads	Count	103	16		624	35,784			24
	Schools HAZUS SDURS	Count	1	10		2,360	1,350			24
	transin ca	Length (ft)	18,825	16		4,635	1,330	59,177	89,103	0
Pittsburg	Commercial - Personal and Repair Services	Count	10,020	5		2,228	1,115	38,177	00,100	6
Fittsburg		Count	 	5		1,044	591			10
	Commercial - Retail Trade	Count		5		1,250	639			6
	Delta Roads PBSJ Major Roads	Length (ft)	6,213	5	25	2,050	564			6
i e	Delta Roads PBSJ Minor Roads	Length (ft)	4,125	5	25	825	227			6
	Industrial - Construction	Count	4,120	5	43	3,398	1,794			15
	Natural Gas Pipeline	Length (ft)	10,044	5	0	1,908	1,794			0
	Petroleum Pipelines	Length (ft)	5,423	5	0	1,139	ŏ			0
	Port HAZUS SDURS	Count	3,423	9	0	2,572	0			0
	rail 1000 nodes	Count	4	3		2,572	- 0			0
	Rail Bridge HAZUS SDURS	Count	+ 7	2	25	1,000	275			1
	Rail HAZUS SDURS	Length (ft)	14,710	5	25	4,192	1,153			1
	Residential - Duplex	Count	14,710	5	29	2,051	707			14
	Residential - Duplex Residential - Manuf. Housing	Count	 	5	100	2,051 56	56			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	 	5	29	1,653	570			14
	Residential - Multi-Dwellings- 10 to 19 units	Count	 - 	5	29	731	252			14
l	Residential - Multi-Dwellings- 20 to 49 units	Count	98	5	29	27,960	9,791	1		14
	Residential - Triplex-Quads	Count	4	5	29	1,457	502			14
	substation ca	Count		4	25	1,457	275	1		0
•	transin ca	Length (ft)	37,606	5	20	9,259	0			0
	utilities	Count	37,000	1		9,209 n		18.510	65,772	0
Prospect Island	Delta Roads PBSJ Minor Roads	Length (ft)	5,398	15	25	1,080	297	10,510	05,772	6
1 Tospect_Island	Gas Oil Production Fields	Area (Acres)	301	15	0	1,000	297	- 1		0
	gas oil wells	Count	11	12	ö	0	0	l		0
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	15	100					24
	Residential - Single Family Dwelling	Count	2	15	100	707	751	1,050	1,788	24
Quimby Island	bridges not in HAZUS	Count	 	15	25	500	138	1,000	1,700	3
daminay_lolana	gas oil wells	Count	l	18	20	300	130			- 0
	Residential - Single Family Dwelling	Count	 	18	100	126	134	271	626	24
RD 17 (Mossdale)	Boatlaunch	Count	3	1	100	300	330	2,7 1	020	0
11 (1110000000)	bridges not in HAZUS	Count	3	6	25	1,500	413	4		3
	Commercial - Banks	Count	1	5	15	848	429			5
	Commercial - Entertainment and Recreation	Count	2	5	16	3,306	1,691			6
	Commercial - Personal and Repair Services	Count		5	19	2,072	1,091			7
	Commercial - Professional/ Technical Services	Count	 	5	35	9,718	5,986			13
	Commercial - Retail Trade	Count		5	20	7,016	3,743]		7
	Commercial - Wholesale Trade	Count	3	5	16	13,124	6,713			6
	Delta Roads PBSJ Major Roads	Length (ft)	39,252	5	25	12,953	3,562			6
	Delta Roads PBSJ Minor Roads	Length (ft)	303,437	5	25	60,687	16,689			6
	Gas Oil Production Fields	Area (Acres)	313	5	0	00,007	10,009			0
•	gas oil wells	Count	17	3	ŏ	ő	0			0
	Hazmat HAZUS SDURS	Count	<u>'á</u> l	5	├ 	ő	<u> </u>			0
	hc ambulatory	Count	7	1	2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1
	Hwy Bridge HAZUS SDURS	Count	15	4	25	30.000	8,250	ĺ		3
	Hwy HAZUS SDURS	Length (ft)	30,636	5	25	10,110	2,780			3
	Industrial - Heavy	Count	4	5	22	24,388	11,052	ŀ	1	8
	Natural Gas Wells	Count	1	3			,502			0
	Rail Facility HAZUS SDURS	Count	1	9	100	2,572	2,830	- 1		0
	Rail HAZUS SDURS	Length (ft)	8,867	5	25	2,572	695			1
	Residential - Duplex	Count	1	5	32	926	362	1		15
	Residential - Manuf, Housing	Count	218	5	100	11,447	11,584	l		24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	5	32	56	22	l		15
			 	<u></u>	<u> </u>	201		ŀ		10

1	Residential - Multi-Dwellings- 20 to 49 units	Count	1	5	32	293	114	ı		15
	Residential - Single Family Dwelling	Count	2,533	5		749.075	296,222	l l		16
	Residential - Single Family Dwelling Residential - Triplex-Quads	Count	2,000	5		1,790	699	l		15
	Schools HAZUS SDURS	Count	 	l ö			033			0
	substation ca	Count	1	8		1,000	275			0
	transin ca	Length (ft)	92,591	5		22,797	0			0
	US cell towers	Count	32,091	9		250	0	1		0
	utilities	Count	1	0		200	0	375,535	969,933	0
Rindge_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	85,006	20		17,001	4,675	070,000	000,000	6
Timage_Trace	gas oil wells	Count	14	20	20		4,075			0
	Natural Gas Wells	Count	14	18		0				0
	Residential - Duplex	Count	1	20	100	287	305			24
	Residential - Manuf. Housing	Count		20	100	132	137			24
1	Residential - Single Family Dwelling	Count	4	20	100	846	900			24
	US cell towers	Count	1	14	100	250	0	6,017	18,516	0
Rio Blanco Tract	Delta Roads PBSJ Minor Roads	Length (ft)	2,927	8	25	585	161	0,017	10,510	6
NO_Blanco_Tract	gas oil wells	Count	2,921	9	0	363	0			0
	Hwy Bridge HAZUS SDURS	Count	- 4	14	25	2,000	550	I		0
	Hwy HAZUS SDURS	Length (ft)	5,520	8	25	1,822	501	1		3
	transin ca	Length (ft)	22,668	8	25	5,581	0	1,212	9.988	0
Roberts Island			22,000		-			1,414		
	Boatlaunch	Count	1	0		100	0	U	100	0
Rough_and_Ready_Island	air trans	Count	1	5 7		4 270	0	ŀ		0
	Commercial - Entertainment and Recreation	Count	1		20	1,376	757			/
	Commercial - Personal and Repair Services	Count		7	25	2,564	1,481	I		9
	Commercial - Professional/ Technical Services	Count	1		41	510	339	l		15
	Commercial - Retail Trade	Count	1	/	26	1,558	908	I		9
	Commercial - Wholesale Trade	Count	3 101		22	12,596	7,066	1		8
	Delta Roads PBSJ Major Roads	Length (ft)	8,461		25	2,792	768	1		6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	80,980		25 0	16,196	4,454	1		6
	gas_oil_wells Government - General Services	Count	1	9		90 075	04 000	i		0
	Hazmat HAZUS SDURS	Count	13 3	3	20	39,875	24,826	1		
	Industrial - Heavy	Count	3	3	30	4 200	2 200	1		0
	Petroleum Pipelines	Count	12,715		30	4,280 2,670	2,203	1		11
	rail 1000 nodes	Length (ft) Count	12,/15	8	ļ	∠,670		1		0
	Rail HAZUS SDURS		29,506	8	- 25	8,409		1		0
		Length (ft)	∠9,506	<u> </u>			2,313			1
	Residential - Duplex Residential - Manuf. Housing	Count	9		43 100	1,026 474	521	1		21
	Residential - Wanur. Housing Residential - Single Family Dwelling	Count	15	7			485	1		24
	tankfarms	Count	15	2	39	3,027	1,452 0	47 574	100 250	19 0
Rver Island			4.054		-	6,000		47,574	103,353	
ryer islanu	Delta_Roads_PBSJ_Major_Roads	Length (ft)	1,851	19	25	611	168	ı		6
	Delta Roads PBSJ Minor Roads	Length (ft)	116,940	19	25	23,388	6,432	l		6
	Gas_Oil_Production_Fields gas_oil_wells	Area (Acres)	412	19	,0 0	0	<u> </u>	l		O O
		Count	22	18		0	0	l		0
	Hwy Bridge HAZUS SDURS	Count	56 504	12	25	2,000	550	1		3
	Hwy_HAZUS_SDURS Natural Gas Wells	Length (ft)	56,501	19	25	18,645	5,127	I		3
		Count	3	19	400	0	0	į		0
	Residential - Manuf. Housing	Count	7	19	100	360	374	20.465	04.404	24
Sangaranta Dankat Aus-	Residential - Single Family Dwelling	Count	61	19	100	16,490	17,534	30,185	61,494	24
Sacramento_Pocket_Area	air_trans	Count	11	6	-	0	0	l		0
	Airport Points	Count	2	4	25	0	9	1		0
	Boatlaunch	Count	3	16	100	300	330	1		0
	bridges_not_in_HAZUS	Count	185	6	25	92,500	25,438	1		3
	Colleges and Universities	Count	2	9	15	46,370	28,768	1		5
	Commercial - Banks	Count	108	9	22	169,968	95,352	1		8
	Commercial - Entertainment and Recreation	Count	229	9	22	421,838	236,651	l		8
	Commercial - Hospitals	Count	4	9	43	140,178	100,535	[15

	Commercial - Medical Clinics	Count	201	9	20	612,815	377,494	1	1	[
	Commercial - Personal and Repair Services	Count	152	9			219,672	1 !	1	1
	Commercial - Professional and Technical Services		45				954,844	1 1	1	1
	Commercial - Retail Trade	Count	10				435,173	. !	1	1
	Commercial - Theaters	Count	1	9			2,152			
	Commercial - Wholesale Trade	Count	42		25		149.767			
	Delta Roads PBSJ Major Roads	Length (ft)	686,061	9			62,260		į į	
	Delta Roads PBSJ Minor Roads	Length (ft)	3,118,576		25		171,522	!		
	freeport pipe route preferred	Length (ft)	27,576		- 20	023,713	171,522	!	ĺ	
	gas oil wells	Count	15		0	1			i '	
	Government - General Services	Count	198		23	-	395,246	!	1	
	hc ambulatory	Count	765		17		393,246		i '	
	hc hospital	Count	23		47		0		·	1
	hc nursing res		66		16		0	,	·	!
	Hwy Bridge HAZUS SDURS	Count							1	
	Hwy HAZUS SDURS	Count	14				7,700		!	
		Length (ft)	130,656				11,857	i	i '	
	Industrial - Construction	Count	11		100		73,490		1	1
	Industrial - Heavy	Count	13				58,518	i !	1	1
	Industrial - Light	Count	22		35		95,137	į	i '	
	intermodal_terminal_facilities	Count	1 2/5/5	4	-	0	0		1	
	Natural Gas Pipeline	Length (ft)	81,042	9	0		Ö		1	
	Petroleum Pipelines	Length (ft)	46,293	9	0	- 11	0	1	i '	
	rail_1000_nodes	Count	41	7		0		ŀ	i	
	Rail_HAZUS_SDURS	Length (ft)	2,252	9	25				i '	
	Religion - Churches and other Non-Profit	Count	64	9	14		209,722		i	
	Residential - Duplex	Count	1,682	9	46		371,413		!	- 2
	Residential - Institutional and Dormitory Housing		113		20		279,941		1	
	Residential - Manuf. Housing	Count	1,233	9	100		67,299		1	2
	Residential - Multi-Dwellings - 10 to 19 units	Count	265		46		2,730		!	2
	Residential - Multi-Dwellings - 20 to 49 units	Count	18		46		9,348	l J		2
	Residential - Multi-Dwellings - 5 to 9 units	Count	558		46		700,454	1	!	2
	Residential - Multi-Dwellings - 50+ units	Count	42	9	46	1,076,663	583,479	1	1	
	Residential - Multi-Dwellings- 10 to 19 units	Count	265	9	46	932,772	505,500			2
	Residential - Nursing Home	Count	7	9	20	32,364	11,487			
	Residential - Single Family Dwelling	Count	60,852	9	44	15,690,770	8,287,603			2
	Residential - Triplex-Quads	Count	1,595	9	46	710,390	384,984			
	Schools_HAZUS_SDURS	Count	18	12	24	21,240	12,617		1	
	sewage treat	Count	6		30		283,800			
	solid_waste_facilities	Count	38		25				1	
	substation_ca	Count	8		25		2,200			
	superfund sites	Count	1	12		0	0		i !	<u> </u>
	tankfarms	Count	3	10		9,000	0		1	
	transin ca	Length (ft)	179,140	9	-	44,106	0		1	
	US cell towers	Count	1	9	_	250	Ö		1	
	utilities	Count	8	8	-	0		15,214,659	28,781,540	
argent Barnhart Tract 1	Commercial - Professional/ Technical Services	Count	1	2	11	<u> </u>	0	10,214,000	20,7 0 1,0-10	——
	Commercial - Retail Trade	Count	1	2	9		<u> </u>		1	·
	Delta Roads PBSJ Minor Roads	Length (ft)	10,550	2	25		580		1	
	gas pipeline kinder morgan LS 9	Length (ft)	10,550	2		2,110	580			
		Count				F 040				
	Residential - Duplex		13		16		942			
	Residential - Multi-Dwellings - 5 to 9 units	Count	1	2	16		602			ļ
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	2	16		105			
	Residential - Multi-Dwellings- 20 to 49 units	Count	1		16		392	į		
	Residential - Single Family Dwelling	Count	172		16		7,882	į		
	Residential - Triplex-Quads	Count	6		16		513	į	(
argent Barnhart Tract 2	Schools_HAZUS_SDURS	Count	1	_	. 7	3,540	1,304	12,326	62,929	
	air trans	Count		10						

								_		
	Commercial - Banks	Count	8	7	19	12,312	6,704			7
	Commercial - Entertainment and Recreation	Count	17	7	20	32,894	18,092			7
	Commercial - Medical Clinics	Count	17	7	18	44,845	27,230			6
	Commercial - Personal and Repair Services	Count	7	7	25	13,566	7,834			9
	Commercial - Professional and Technical Service	Count	6	7	41	133,348	88,743		*	15
	Commercial - Retail Trade	Count	1	7	26	20,294	11,831			9
	Delta Roads PBSJ Major Roads	Length (ft)	4,901	7	25	1,617	445			6
	Delta Roads PBSJ Minor Roads	Length (ft)	245,714	7	25	49,143	13,514			6
	gas pipeline kinder morgan LS 9	Length (ft)	14,482	7	0	3,041	0			0
	hc ambulatory	Count	98	5	16	0,5.11	Ť			6
	he hospital	Count	2	12	100	Ö	ň			18
	hc nursing res	Count	4	6	16	0				8
	Hwy Bridge HAZUS SDURS	Count	10	5	25	20.000	5,500			3
	Hwy HAZUS SDURS		7,129	7	25	2,353	647			3
		Length (ft)					047 Ó			0
	mokelumne_aqueduct_pipe	Length (ft)	43,147		0	215,736	4.507			
	Religion - Churches and other Non-Profit	Count			14	8,740	4,567			5
İ	Residential - Duplex	Count	79	7	43	25,824	13,124			21
	Residential - Institutional and Dormitory Housing		1	7	18	6,704	2,178			9
ŀ	Residential - Manuf. Housing	Count	23	7	100	1,515	1,550			24
1	Residential - Multi-Dwellings - 10 to 19 units	Count	1	7	43	830	422			21
	Residential - Multi-Dwellings - 5 to 9 units	Count	29	7	43	68,052	34,584			21
}	Residential - Multi-Dwellings - 50+ units	Count	3	7	43	84,645	43,017			21
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	7	43	11,322	5,754			21
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	7	43	7,296	3,708			21
	Residential - Single Family Dwelling	Count	3,660	7	39	1,162,187	557,598			19
	Residential - Triplex-Quads	Count	84	7	43	36,522	18,560			21
	Schools HAZUS SDURS	Count	6	6	10	7,080	3,349			4
•	substation ca	Count	1	11	25	1.000	275			0
	transin ca	Length (ft)	10,183	7	-	2,507	0	869,224	1,973,371	0
Sargent_Barnhart_Tract 3	Boatlaunch	Count	1	9	100	100	110			0
	Commercial - Entertainment and Recreation	Count	5	10	26	1,572	916			9
	Commercial - Personal and Repair Services	Count	1	10	32	9,216	5,677			12
		Count		10	47	4,870	3,402			17
	Commercial - Retail Trade	Count		10	34	300	188			12
	Delta Roads PBSJ Minor Roads	Length (ft)	1,583	10	25	317	87			6
	Residential - Multi-Dwellings - 5 to 9 units	Count	1,063	10	48		476			
						830				23
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	10	48	95	54			23
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	10	48	137	78			23
i	Residential - Single Family Dwelling	Count	29	10	47	8,949	5,048	,		22
	Residential - Triplex-Quads	Count	1	10	48	267	153	16,191	26,651	23
Schafter-Pintail Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	12,297	9	25	2,459	676			6
l	gas_oil_wells	Count	1	9	0	. 0	0			0
	Residential - Single Family Dwelling	Count	2	9	47	621	350	1,027	3,080	22
Sherman_Island		A	3	8	100	300	330			0
I .	Boatlaunch	Count								
Ĭ.		Count	1	19	100	276	304			18
			1	19 19	100 100	276 960	304 1,056			
	Commercial - Professional/ Technical Services Commercial - Retail Trade	Count Count	1 1	19	100	960	1,056			18
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads	Count Count Length (ft)	1 1 1,521	19 19	100 25	960 502	1,056 138			18 6
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads	Count Count Length (ft) Length (ft)	1 1 1,521 87,988	19 19 19	100 25 25	960	1,056			18 6
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields	Count Count Length (ft) Length (ft) Area (Acres)	1 1,521 87,988 1,086	19 19 19 19	100 25 25 0	960 502 17,598	1,056 138 4,839			18 6 6
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells	Count Count Length (ft) Length (ft) Area (Acres) Count	1 1,521 87,988 1,086 60	19 19 19 19 19	100 25 25 0 0	960 502 17,598 0	1,056 138 4,839 0			18 6 6 0
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy HAZUS SDURS	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft)	1 1,521 87,988 1,086 60 38,217	19 19 19 19 18	100 25 25 0 0 25	960 502 17,598 0 0 12,611	1,056 138 4,839			18 6 6 0 0
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy HAZUS SDURS Natural Gas Pipeline	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Length (ft)	1 1,521 87,988 1,086 60 38,217 145,514	19 19 19 19 18 18 19	100 25 25 0 0	960 502 17,598 0 0 12,611 48,020	1,056 138 4,839 0 0 3,468			18 6 6 0 0 3
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy HAZUS SDURS Natural Gas Pipeline Natural Gas Wells	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Length (ft) Count	1 1,521 87,988 1,086 60 38,217 145,514	19 19 19 19 18 18 19 19	100 25 25 0 0 25 0	960 502 17,598 0 0 12,611 48,020	1,056 138 4,839 0 0 3,468 0			18 6 6 0 0 3 0
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields gas_oil_wells Hwy_HAZUS_SDURS Natural Gas_Pipeline Natural Gas_Wells Residential - Duplex	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Length (ft) Count Count Count	1 1,521 87,988 1,086 60 38,217 145,514 4	19 19 19 19 18 18 19 19	100 25 25 0 0 25 0 -	960 502 17,598 0 0 12,611 48,020 0 645	1,056 138 4,839 0 0 3,468 0 0			18 6 6 0 0 3 3 0 0 0 24
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Gas Oil Production Fields gas oil wells Hwy HAZUS SDURS Natural Gas Pipeline Natural Gas Wells Residential - Duplex Residential - Manuf. Housing	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Length (ft) Count Count Count Count	1 1,521 87,988 1,086 60 38,217 145,514	19 19 19 19 18 19 19 19 15 19	100 25 25 0 0 25 0 - 100 100	960 502 17,598 0 0 12,611 48,020 0 645 2,366	1,056 138 4,839 0 0 3,468 0 0 686 2,455			18 6 6 0 0 3 0 0 24 24
	Commercial - Professional/ Technical Services Commercial - Retail Trade Delta_Roads PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields gas_oil_wells Hwy_HAZUS_SDURS Natural Gas_Pipeline Natural Gas_Wells Residential - Duplex	Count Count Length (ft) Length (ft) Area (Acres) Count Length (ft) Length (ft) Count Count Count	1 1,521 87,988 1,086 60 38,217 145,514 4	19 19 19 19 18 18 19 19	100 25 25 0 0 25 0 -	960 502 17,598 0 0 12,611 48,020 0 645	1,056 138 4,839 0 0 3,468 0 0			18 18 6 6 0 0 0 3 0 0 24 24 24

I	Residential - Triplex-Quads	Count	1	19	100	485	515			24
	transin ca	Length (ft)	71.301	19		22,957		22,533	114,940	
Chima Tract	Commercial - Entertainment and Recreation	Count	71,001	9		2,030	1,139	22,000	11-1,0-10	Ř
Shima_Tract	Commercial - Medical Clinics	Count	1	9	20	2,415	1,139			7
	Commercial - Nedical Clinics Commercial - Personal and Repair Services		3	9	28	5,424	3,222			10
		Count	3	9	44	20,154	13,745			16
	Commercial - Professional and Technical Service	Count		9	30	9,212	5,573			11
	Commercial - Retail Trade		4,694	9	25	1,549	426			6
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	139,179	9	25	27,836	7,655			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	139,179	4	20	21,030	7,655			0
	gas_oil_wells	Count	10	5	16	- 0				6
	hc_ambulatory	Count	10	<u>5</u>	25	- 0				<u> </u>
	hc_hospital	Count	2			0	0			9
	hc_nursing_res	Count	4	4	15		550			
	Hwy_Bridge_HAZUS_SDURS	Count		4	25	2,000				
	Hwy_HAZUS_SDURS	Length (ft)	7,177	9	25	2,369	651			3
	Residential - Duplex	Count	63	9	46	25,154	13,632			22 10
•		Count	1	9	20	5,472	1,942			
	Residential - Multi-Dwellings - 10 to 19 units	Count	4	9	46	7,550	4,091			22
	Residential - Multi-Dwellings - 5 to 9 units	Count	34	9		72,285	39,174			22
	Residential - Multi-Dwellings - 50+ units	Count	. 4	9		61,698	33,436			22
	Residential - Multi-Dwellings- 10 to 19 units	Count	4	9		13,050	7,072			22
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	9		3,923	2,126			22
	Residential - Single Family Dwelling	Count	2,706	9		681,659	360,041			21
	Residential - Triplex-Quads	Count	`83	. 9		36,120	19,575			22
	Schools_HAZUS_SDURS	Count	1	2	5	10,620	2,804			2
	transin_ca	Length (ft)	28,920	9		7,120	0	518,341	997,638	
Shin_Kee_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	8,821	8		1,764	485			6
	gas_oil_wells	Count	4	8		0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	8,005	8	25	2,642	726			3
	transin_ca	Length (ft)	32,162	8	-	7,919	0	1,212	12,324	0
Simmons-Wheeler_Island	Residential - Single Family Dwelling	Count	1	7	37	252	113	113	252	18
SM-123	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,064	6	25	1,341	369			6
	Delta Roads PBSJ Minor Roads	Length (ft)	20,924	6	25	4,185	1,151			6
	gas oil wells	Count	4	5	0	0	0			0
	Hwy Bridge HAZUS SDURS	Count	4	3	25	8,000	2,200			3
	Hwy HAZUS SDURS	Length (ft)	2,607	6	25	860	237			3
	intermodal terminal facilities	Count	1	2		o	0			0
	Natural Gas Pipeline	Length (ft)	2,479	6	0	471	Ó			0
	Petroleum Pipelines	Length (ft)	3,045	6	0	639	0			0
	rail 1000 nodes	Count	1	2		0	0			0
	Rail HAZUS SDURS	Length (ft)	3,085	6	25	879	242			1
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	6	39	245	112			18
	Residential - Single Family Dwelling	Count	13	6	37	2,414	1,078			18
	Residential - Triplex-Quads	Count	1	6	39	341	156			18
	transin ca	Length (ft)	5,315	6	<u> </u>	1,309	0	5,544	20,683	
SM-124	Commercial - Entertainment and Recreation	Count	4	5		2,404	1,177	0,011	20,000	5
J.III-124	Commercial - Personal and Repair Services	Count	- 3	5	16	816	408			6
		Count	3	<u>5</u>	28	30,882	17,495			10
	Commercial - Retail Trade	Count	 	5	18	13,376	6,842		·	6
	Commercial - Wholesale Trade	Count	 	<u> </u>	13	3,434	1,662			
	Delta Roads PBSJ Major Roads	Length (ft)	8,486	5		2,800	770		-	
	Delta Roads PBSJ Minor Roads	Length (ft)	49,676	5		9,935	2,732			
	gas oil wells		49,070	4	25 0	9,935	2,132			- 0
	Government - General Services	Count	2	<u>4</u> 5	12	6,338	3,304			ļ
		Count	4	2			3,304			4
	hc_ambulatory	Count	4		12	0	— Ņ		-	4
	hc nursing res	Count	. 11	4	15	0	OI.			. /
	Hwy Bridge HAZUS SDURS	Count			25	2,000	550			

•		1 (6)					222		1	
	Hwy_HAZUS_SDURS	Length (ft)	4,224	5	25	1,394	383			3
	Natural Gas Pipeline	Length (ft)	4,077	5	0	775	0			
	Petroleum Pipelines	Length (ft)	38,775	5	0	8,143	0			
	Police_Stations_HAZUS_SDURS	Count	1	3	10	4,130	1,681			4
	rail_1000_nodes	Count	4	2		0	0			
•	Rail_Facility_HAZUS_SDURS	Count	1		25	2,572	707	·		C
	Rail_HAZUS_SDURS	Length (ft)	29,822	5	25	8,499	2,337			1
	Residential - Duplex	Count	21	5		9,294	3,203			14
	Residential - Manuf. Housing	Count	54	. 5	100	2,814	2,817			24
	Residential - Multi-Dwellings - 10 to 19 units	Count	1	5		3,393	1,169			14
	Residential - Multi-Dwellings - 5 to 9 units	Count	1	5	29	7,550	2,602			14
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	5	29	3,294	1,135			14
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	5	29	10,146	3,497			14
	Residential - Single Family Dwelling	Count	536	5	29	138,908	48,641			14
	Residential - Triplex-Quads	Count	37	5	- 29	16,125	5,558			14
	Schools HAZUS SDURS	Count	3	3	9		448			3
	sewage treat	Count	2	4	30	175,000	57,750			12
	substation ca	Count	7	4	25	1,000	275			<u> </u>
	transin ca	Length (ft)	13,589	5	-	3,346	0	167,145	469,547	
SM-132	gas oil wells	Count	10,000	9	0		0	107,140	400,047	
- 132	Residential - Single Family Dwelling	Count	- 1	9	44	263	139	139	263	21
SM-133	Gas Oil Production Fields		203	4	0	203		139	203	
3WI*133	gas oil wells	Area (Acres) Count	203		0	•	0	0	n	~
	0							U	0	
SM-134	Gas_Oil_Production_Fields	Area (Acres)	1	4	0	0	0	_	_	
	gas_oil_wells	Count	1	6	0	0	0	0	0	C
SM-198	Commercial - Retail Trade	Count	1	10	34	2	1			12
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,875	10	25	775	213			€
	gas_oil_wells	Count	3	9	0	0	0			0
	Natural Gas Pipeline	Length (ft)	4,379	10	0	832	0			
	Petroleum Pipelines	Length (ft)	5,484	10	0	1,152	Ó			C
	Rail_HAZUS_SDURS	Length (ft)	1,008	10	25	287	79			1
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	10	48	33	19			23
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	10	48	36	21			23
	Residential - Single Family Dwelling	Count	5	10	47	1,404	792	1,125	4,521	22
SM-199	Communication_HAZUS_SDURS	Count	1	7	100	118	130	*************		18
	Delta Roads PBSJ Minor Roads	Length (ft)	3,987	8	25	797	219			ϵ
	Residential - Multi-Dwellings- 10 to 19 units	Count	1.	8	46	15	8			22
		Count	1	8	46	15	8			22
	Residential - Single Family Dwelling	Count	2	8	44	675	357	722	1.620	21
SM-202	3	Count	1	7	39	266	127	127	266	19
SM-39		Count	1		28	92	52	1 1		10
J u	Commercial - Retail Trade	Count		5	18	254	130			- 6
	Delta Roads PBSJ Major Roads	Length (ft)	4,675	5	25	1,543	424			
	Delta Roads PBSJ Miajor Roads Delta Roads PBSJ Minor Roads	Length (ft)	13,304	5	25	2,661	732			6
	Hwy Bridge HAZUS SDURS	Count	13,304	2	25	6,000	1,650			
<u> </u>	Rail HAZUS SDURS		3,726	5	25 25	1.062				
		Length (ft)					292			<u> </u>
	Residential - Single Family Dwelling	Count	42.255	5	29	1,739	609		40.000	14
SM 40	transin_ca	Length (ft)	13,355	5	- 05	3,288	0	3,889	16,638	0
SM-40	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,779	6	25	1,556	428	428	1,556	6
SM-41		Count	1	7	38	4	3			14
	Commercial - Retail Trade	Count	1	7	23	72	41			8
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	373	7	25	75	21			6
	Petroleum Pipelines	Length (ft)	10,066	7	0	2,114	0			
	Rail_HAZUS_SDURS	Length (ft)	5,568	7	25	1,587	436	500	3,851	1
		A		4	0.5	4.000	075			(
SM-42	substation_ca	Count	11	4	25	1,000	275			
SM-42	substation_ca transin_ca	Length (ft)	3,060	4	25	753	<u>∠/5</u> 0	275	1,753	0

	gas oil wells	Count	6	A	o l	0	n n	1		r
	Residential - Single Family Dwelling	Count	1	7	37	252	113	113	252	18
SM-44	Delta Roads PBSJ Minor Roads	Length (ft)	11,682	5	25	2.336	642	110	202	6
21VI-44	Residential - Single Family Dwelling	Count	71,002	5	33	2,046	809			16
	transin ca	Length (ft)	5,355		331	1,318	009	1,452	5,701	10
SM-46	Commercial - Retail Trade	Count	3,303	7	26	1,516	3	1,402	0,701	9
3IVI-46	Delta Roads PBSJ Minor Roads	Length (ft)	2,339	· · · · · · · · · · · · · · · · · · ·	25	468	129	132	474	6
SM-47			2,339	5	25	0	129	132	4/4	0
		Count		3					- 0	6
SM-48		Count	1		18	15,004	8,087	1		
		Count	1		38	1,832	1,189			14
	Commercial - Retail Trade	Count	2	6	23	32,612	18,475	1		0
	gas_oil_wells	Count	21 217		0	4 455	0			0
	Petroleum Pipelines	Length (ft)	21,217		0 25	4,455	0 815	20 566	EC 000	U 4
	Rail_HAZUS_SDURS	Length (ft)	10,405			2,965		28,566	56,869	1
SM-49		Count		7	18	8,202	4,421			6
		Count	1	7	38	8,276	5,371			14
	Commercial - Retail Trade	Count	1	7	23	9,038	5,120			8
	Commercial - Wholesale Trade	Count	2	7	19	8,272	4,504			7
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	17,086		25	3,417	940			6
	Hwy_HAZUS_SDURS	Length (ft)	3,040	7	25	1,003	276			3
	Industrial - Light	Count	1	7	30	5,843	2,969			11
	Petroleum Pipelines	Length (ft)	19,582	7	Ö	4,112	0			0
	Rail_HAZUS_SDURS	Length (ft)	9,851	7	25	2,808	772			
	Residential - Single Family Dwelling	Count	9		37	2,720	1,215	25,588	53,690	18
SM-51		Area (Acres)	2	,	0	0	0	0	0	0
SM-52	Commercial - Retail Trade	Count	1	5	20	126	68			7
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,653		25	1,531	421			6
	Gas_Oil_Production_Fields	Area (Acres)	192	5	0	0	0	- 1		0
	gas_oil_wells	Count	8		0	0	0			0
	Hwy_Bridge_HAZUS_SDURS	Count	1	3	25	2,000	550			3
	Hwy_HAZUS_SDURS	Length (ft)	686		25	226	62			3
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	5	32	5	2			15
		Count	1	5	32	5	2			15
	Residential - Single Family Dwelling	Count	3	5	33	693	274	1,379	4,585	16
SM-53	Commercial - Retail Trade	Count	1	4	16	56	26			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	53	4	25	11	3			6
	Gas_Oil_Production_Fields	Area (Acres)	179	4	0	Ö	0			0
	gas_oil_wells	Count	3	3	0	0	0			0
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	4	26	2	0			12
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	4	26	2	0	30	70	12
SM-54	Commercial - Personal and Repair Services	Count	2	6	19	1,252	668			7
	Commercial - Professional/ Technical Services	Count	1	6	35	11,032	6,856	1		13
	Commercial - Retail Trade	Count	1	6	20	10,634	5,732			7
	Commercial - Wholesale Trade	Count	5	6	16	25,244	13,051			6
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,186	6	25	1,051	289			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	28,636	6	25	5,727	1,575	1		6
	gas_oil_wells	Count	5	5	0	0	0			0
	Hwy Bridge HAZUS_SDURS	Count	3	3	25	6,000	1,650	1		. 3
	Hwy_HAZUS_SDURS	Length (ft)	3,020	6	25	996	274	1		3
	Industrial - Construction	Count	2	6	47	8,880	4,982	1		17
	Industrial - Heavy	Count	3	6	22	26,893	12,365	l		8
	Natural Gas Pipeline	Length (ft)	460	6	Ó	87	0	- 1		0
	Petroleum Pipelines	Length (ft)	48,352	6	0	10,154	Ö			О
		Count	5		- 1	0	0	1		0
		Count	1	0	0	2,572	0	1		0
	Rail HAZUS SDURS	Length (ft)	50,708	6	25	14,452	3,974	- 1		1
					32					15

Ī	Residential - Multi-Dwellings- 20 to 49 units	Count	1 4	6	32	5	2	ı		15
	Residential - Multi-Dwellings - 20 to 49 tritis	Count		6	33	2,643	1,045			16
	solid waste facilities	Count	9	2	25		1,045	52,467	127,632	0
SM-55			44.004		25 25			52,407	127,032	6
SM-55	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,381	10			791			
	Natural Gas Pipeline	Length (ft)	4,432 4,424	10	0		0			0
	Petroleum Pipelines	Length (ft)	4,424	10	0			4.440	E 040	
	Residential - Single Family Dwelling	Count	2	10	47	566	319	1,110	5,213	22
SM-56	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,417	7	25		298			6
	gas_oil_wells	Count	2	6	0		0			0
	Natural Gas Pipeline	Length (ft)	5,028	7	0		0			0
	Petroleum Pipelines	Length (ft)	3,100	7	0	651	0			. 0
	Residential - Single Family Dwelling	Count	3	7	37		478	776	3,759	18
SM-57	bridges_not_in_HAZUS	Count	1	2	25	500	138			3
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	36	4	25	12	3			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,872	4	25	1,974	543			6
	hc_ambulatory	Count	` 2	2	11	0	0			4
	Hwy_Bridge_HAZUS_SDURS	Count	1	3	25	2,000	550	i		3
	Hwy_HAZUS_SDURS	Length (ft)	2,242	4	25	740	203			3
	Natural Gas Pipeline	Length (ft)	5,915	4	0	1,124	0			0
	Residential - Single Family Dwelling	Count	19	4	29	6,366	2,229			14
	solid_waste_facilities	Count	1	4	25	0	0			0
	transin_ca	Length (ft)	12,039	4	-	2,964	Ó			0
	water_trans	Count	1	2	-	0	0	3,666	15,680	0
SM-58	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,840	6	25	768	211	211	768	6
SM-59	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	291	5	25	58	16			6
	Gas_Oil_Production_Fields	Area (Acres)	275	Ś	Ó	0	0			0
	gas oil wells	Count	9	4	0	0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	4,382	5	25	1,446	398			3
	Residential - Single Family Dwelling	Count	1	5	29	285	100	513	1,789	14
SM-60	Commercial - Entertainment and Recreation	Count	1	3	12	11,314	4,605			4
	Commercial - Personal and Repair Services	Count	1	3	13	5,008	2,066			5
	Commercial - Professional/ Technical Services	Count	1	3	22	3,396	1,569			8
	Commercial - Retail Trade	Count	1	3	16	1,212	520	i		6
	Delta Roads PBSJ Minor Roads	Length (ft)	4,004	3	25	801	220	i		6
	gas oil wells	Count	3	1	0	0	0	- 1		0
	Hwy Bridge HAZUS SDURS	Count	1	8	25	2,000	550			3
	Residential - Single Family Dwelling	Count	2	3	26	440	133	9,663	24,170	12
SM-84	Commercial - Retail Trade	Count	1	8	30	162	98		·	11
	Delta Roads PBSJ Minor Roads	Length (ft)	57,166	8	25		3,144			6
	Gas Oil Production Fields	Area (Acres)	9	8	Ö		0			0
	gas oil wells	Count	9	8	0		0			0
	Residential - Single Family Dwelling	Count	11	8	44		1,848	5,090	15,093	21
SM-85-Grizzly Island	Delta Roads PBSJ Minor Roads	Length (ft)	45,162	7	25	9,032	2,484		, , , , , , , , , , , , , , , , , , , ,	6
	Gas Oil Production Fields	Area (Acres)	190	7	0		2,.01			ŏ
	gas oil wells	Count	12	7	Ö		0	i		ó
	Natural Gas Pipeline	Length (ft)	30,134	7	Ö		0			Ö
	Petroleum Pipelines	Length (ft)	2,326	7	ő	488	0	ł		ŏ
	Residential - Single Family Dwelling	Count	5	7	39	1,686	809	3,293	16,932	19
Smith_Tract	Commercial - Entertainment and Recreation	Count	5		14	7,726	3,654	0,200	,0,002	5
	Commercial - Personal and Repair Services	Count	5	4	16	11,508	5,570	1		6
		Count	1	4	28	4,708	2,589	1		10
	Commercial - Retail Trade	Count	1	 <u> </u>	18	12,350	6,113	-		6
	Delta Roads PBSJ Major Roads	Length (ft)	19,013	4	25	6,274	1,725	- 1		6
	Delta Roads PBSJ Minor Roads	Length (ft)	218,778	4	25	43,756	12,033	1	-	6
	hc ambulatory	Count	210,776	4	13	70,700	12,000	1		
	hc nursing res	Count	1	9	20	0	- 0	j		10
	Hwy Bridge HAZUS SDURS	Count	9	3	25	18.000	4,950	l		10
	/_o.lago_1//250_050110	LOOUIN I				10,000	7,000	ı		

i										
	Hwy_HAZUS_SDURS	Length (ft)	6,635	4	25		602		ļ.	3
	Religion - Churches and other Non-Profit	Count	1	4	12		1,266		İ	4
	Residential - Duplex	Count	31	4	29		4,878			14
	Residential - Manuf. Housing	Count	14		100		900			24
	Residential - Multi-Dwellings - 10 to 19 units	Count	3	4	29		24,914			14
	Residential - Multi-Dwellings - 20 to 49 units	Count	1	4	29		23,455			14
	Residential - Multi-Dwellings - 5 to 9 units	Count	3		29		5,946			14
	Residential - Multi-Dwellings - 50+ units	Count	3		29		18,858			14
	Residential - Multi-Dwellings- 10 to 19 units	Count	3	4	29		5,213			14
	Residential - Single Family Dwelling	Count	4,093	4	29		360,733			14
	Residential - Triplex-Quads	Count	10		29		3,559		ŀ	14
	Schools_HAZUS_SDURS	Count	6	5	9	.,	3,115	490,073	1,401,180	
Stark_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	280	9	25	56	15			6
	gas_oil_wells	Count	1	10	0	0	0			C
	Natural Gas Pipeline	Length (ft)	4,943	9	0	939	0			C
	Residential - Single Family Dwelling	Count	2	9	44	504	266			21
	transin_ca	Length (ft)	15,026	9	-	3,700	0	282	5,199	C
Staten_Island	Commercial - Retail Trade	Count	1	23	100	246	271			18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,422	23	25	1,459	401			6
	Delta Roads PBSJ Minor Roads	Length (ft)	46,221	23	25	9,244	2,542			6
	Gas_Oil_Production_Fields	Area (Acres)	1,623	23	Ó	0	0		1	C
	gas_oil_wells	Count	34	21	0		0		l	C
	Hwy_Bridge_HAZUS_SDURS	Count	1	20	25	2,000	550		l	3
	Natural Gas Pipeline	Length (ft)	26,158	23	O'		0		· ·	0
	Natural Gas Wells	Count	4	17	-	0	0			C
	Residential - Manuf. Housing	Count	7	23	100	329	341		ŀ	24
	Residential - Single Family Dwelling	Count	3	23	100	518	550	4,655	20,596	24
Stewart_Tract	Commercial - Professional/ Technical Services	Count	1	7	41	338	225			15
	Commercial - Retail Trade	Count	1	7	26	1,150	670		l	9
	Delta Roads PBSJ Minor Roads	Length (ft)	61,565	7	25		3,386			
	gas oil wells	Count	7	8	0		0,000			i d
	Hwy_Bridge_HAZUS_SDURS	Count	6	8	25		3,300		ļ	- 3
	Hwy HAZUS SDURS	Length (ft)	7,634	7	25	2,519	693		1	
	Rail HAZUS SDURS	Length (ft)	4,671	7	25	1,331	366			l
	Residential - Manuf. Housing	Count	13	7	100	702	718			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	7	43	228	116			21
	Residential - Single Family Dwelling	Count	62	7	39	16,019	7,685			19
	transin ca	Length (ft)	29,191	7		7,187	7,000	17,160	53,787	(
Sutter Island	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,515	15	25	1,160	319	17,100	33,787	6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	63,251	15	25 25	12,650	3,479			
	Gas Oil Production Fields	Area (Acres)	27	5	0	12,000	3,479			
	Gas Oil Production Fields	Area (Acres)	656	18	0	0				
	gas oil wells	Count	000	15	0		- 0		l	<u> </u>
	Hwy HAZUS SDURS	Length (ft)	5,145	15	25	1,698	467			3
	Residential - Manuf. Housing	Count	0,140	15	100		62			
			4			60				24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	15	100	510	542	4	20.000	24
Tambiana Tantid	Residential - Single Family Dwelling	Count	38	15	100	10,256	10,905	15,774	26,333	24
Terminous_Tract 1	Commercial - Professional/ Technical Services	Count	1	5	35	4	2			13
	Commercial - Retail Trade	Count		5	20	628	335			7
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	11,549	5	25	3,811	1,048			6
	Delta Roads PBSJ Minor Roads	Length (ft)	15,485	5	25	3,097	852			6
	gas_oil_wells	Count	5	5	0	0	<u> </u>			
	Hwy Bridge HAZUS SDURS	Count	3	5	25	6,000	1,650			
	Hwy_HAZUS_SDURS	Length (ft)	15,540	5	25	5,128	1,410			
	Natural Gas Pipeline	Length (ft)	651	5	0	150	0			
	Residential - Manuf. Housing Residential - Single Family Dwelling	Count Count	12 6	5 5	100 33	630 1,103	638 436			24 16

	Schools HAZUS SDURS	Count	1	4	9	1,180	305	- 1		
	transin ca	Length (ft)	31,244	5	-	7,693	0	6,676	29,423	
Ferminous_Tract 2	Agriculture	Count	1	18	100	2,270	2,147			
	Boatlaunch	Count	1	22	100	100	110	į.		
	Commercial - Professional/ Technical Services	Count	1	18	100	172	189			
	Commercial - Retail Trade	Count	1	18	100	1,282	1,410			
	Commercial - Wholesale Trade	Count	1	18	100	4,062	4,468	į.		
	Delta Roads PBSJ Major Roads	Length (ft)	3,608	18	25	1,190	327			
	Delta Roads PBSJ Minor Roads	Length (ft)	93,423	18	25	18,685	5,138	i i		
	gas oil wells	Count	21	17	0	10,000	0,100			
	Hwy Bridge HAZUS SDURS	Count	1	13	25	2,000	550			····
	Hwy HAZUS SDURS	Length (ft)	24,235	18	25	7,998	2,199			
	Natural Gas Wells	Count	24,200	14		1,000	2,100			
	Residential - Duplex	Count		18	100	855	909			
	Residential - Manuf. Housing	Count	191	18	100	9,783	10,151			
	Residential - Mandi: Hodsing Residential - Single Family Dwelling	Count	75	18	100	15,390	16,365			
	US cell towers	Count	7.5	19	- 100	250	10,000	43,965	64.037	
Tarminaria Track 2	Delta Roads PBSJ Minor Roads		251	10	25	50	14	40,000	04,007	
Terminous_Tract 3		Length (ft) Count	231	10	100	345	357	1		
	Residential - Manuf. Housing			10	47	545 545	307	678	940	
F 74 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Residential - Single Family Dwelling	Count	30,500					6/8	940	
Fwitchell_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,529	21	25	5,306	1,459 0	1		
	Gas_Oil_Production_Fields	Area (Acres)	2,199	21	. 0	0				
	gas_oil_wells	Count	35	20	0		0			
	Natural Gas Pipeline	Length (ft)	8,803	21	. 0	2,025	0			
	Natural Gas Wells	Count	19			0	0			
	Residential - Duplex	Count	1	21	100	396	421			
	Residential - Manuf. Housing	Count	28		100	1,446	1,500			
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	21	100	71	75			
	Residential - Single Family Dwelling	Count	24	21	100	4,956	5,270			
	Residential - Triplex-Quads	Count	1	21	100	294	313	9,038	14,493	
Tyler_island 2	Airports_HAZUS_SDURS	Count	1	19	25	6,431	1,769			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	5,160	20	25	1,703	468			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	167,781	20	25	33,556	9,228	1		L
	Gas_Oil_Production_Fields	Area (Acres)	4,215	20	0	0	0			
	gas_oil_wells	Count	96	20	0	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	1	13	25	2,000	550			
	Natural Gas Pipeline	Length (ft)	35,509	20	0	7,457	0			
	Natural Gas Wells	Count	13	23	-	0	0			
	Residential - Manuf. Housing	Count	2	20	100	245	254			
	Residential - Single Family Dwelling	Count	17	20	100	4,800	5,104	į.		
	Runway HAZUS SDURS	Count	1	6	25	36,674	10,085			
	solid_waste_facilities	Count	1	7	25	0	0	27,458	92,866	
Jnion_Island 1	Dams HAZUS SDURS	Count	1	16	. 0	0	ol			
_	Delta Roads PBSJ Major Roads	Length (ft)	50,136	12	25	16,545	4,550			
	Delta Roads PBSJ Minor Roads	Length (ft)	215,215	12	25	43,043	11,837			
	Gas Oil Production Fields	Area (Acres)	2,959		0		0	į		
	gas oil wells	Count	51	10	0	0	0			
	Natural Gas Pipeline	Length (ft)	63,467	12	0	12,059	0	l		
	Natural Gas Wells	Count	15			, <u>_</u> ,_,	0	i i		
	Residential - Duplex	Count	3	12	100	1,284	1,365	·. I		
		Count	- 4		34	24,144	12,164	Ì		···
	Residential - Manuf. Housing	Count	19	12	100	830	861			l
	Residential - Single Family Dwelling	Count	75		100	18,996	20,199	i		
	Schools HAZUS SDURS	Count	75	13	28	1,180	727	İ		
	transin ca	Length (ft)	123,471	12	- 20	30,400	121	l		
	US cell towers	Count	143,471	13		250	0	51,702	148,730	

	Gas_Oil_Production_Fields	Area (Acres)	0							
			- 01	6	0	0	0			0
	Natural Gas Pipeline	Length (ft)	2,582	6	. 0	491	0	23	574	0
Union_Island 3	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	4,733	9	25	947	260			6
_	gas_oil_wells	Count	4	9	0	0	0			0
	Natural Gas Pipeline	Length (ft)	6,943	9	0	1,319	0			0
	Residential - Single Family Dwelling	Count	2	9	44	539	284			21
	transin_ca	Length (ft)	16,118	9	-	3,968	0	545	6,773	0
Union_Island 4	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	2,456	6	25	491	135	ı	*	6
	Gas_Oil_Production_Fields	Area (Acres)	70	6	0	0	0	l		0
	gas_oil_wells Natural Gas Pipeline	Count	1,028	5	0	0	0	405	686	0
Hanne Baharta Jaland		Length (ft)		6	-	195	- 1	135	686	-
Upper_Roberts_Island	Delta Roads PBSJ Minor Roads Gas Oil Production Fields	Length (ft)	140,196	5 5	25	28,039	7,711 0	ł		6
	gas oil wells	Area (Acres) Count	1,278	5	0	. 0	0	Ī		0
	Hwy Bridge HAZUS SDURS	Count	32	7	25	2,000	550	1		3
	Natu Gas HAZUS SDURS	Count		7	0	1,286	330	J		0
	Natural Gas Pipeline	Length (ft)	21,809	5	ő	4,144	0	ł		Ö
	Natural Gas Wells	Count	18	5		7,1.10	Ö	1		ő
	Residential - Manuf. Housing	Count	4	5	100	242	244	- 1		24
	Residential - Single Family Dwelling	Count	48	5	33	12,462	4,928			16
	transin_ca	Length (ft)	60,815	5	-	14,973	0	13,433	63,146	0
Van_Sickle_Island	Gas_Oil_Production_Fields	Area (Acres)	292	9	0	0	0			0
	gas_oil_wells	Count	16	9	0	0	0	j		0
	Residential - Single Family Dwelling	Count	3	9	44	810	428			21
	sewage_treat	Count	1	8	30	100,000	33,000	33,428	100,810	12
Veale_Tract 1		Count	1	10	47	336	235			17
	Commercial - Retail Trade	Count	1	10	34	104	65			12
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,133	10	25	1,427	392			6
	Gas_Oil_Production_Fields	Area (Acres)	85	10	0	0	0	i		0
	gas_oil_wells Residential - Manuf. Housing	Count	6	10 10	100	0 320	0 330	[0
	Residential - Manul. Housing Residential - Single Family Dwelling	Count	37	10	47	11,615	6,552		:	24 22
	transin ca	Length (ft)	25,269	10	47	8,136	0,332	7,575	21,936	. 0
Veale_Tract 2	Delta Roads PBSJ Minor Roads	Length (ft)	118	7	25	24	6	7,575	21,930	6
Vouic_11uot E	Natural Gas Pipeline	Length (ft)	710	7	0					0
		Count		7	16	5.378	1,573	1		8
	Residential - Single Family Dwelling	Count	2	7	37	636	284	1,864	6,038	18
Venice Island	Delta Roads PBSJ Minor Roads	Length (ft)	66,238	24	25	13,248	3,643	.,		6
-	gas oil wells	Count	4	26	0	0	0			0
	Residential - Manuf. Housing	Count	2	24	100	60	62	3,705	13,308	24
Victoria_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	67,411	18	25	13,482	3,708	i	· · · · · · · · · · · · · · · · · · ·	6
	gas_oil_wells	Count	2	19	0	0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	23,053	18	25	7,607	2,092			3
	Natural Gas Pipeline	Length (ft)	9,170	18	0	1,742	. 0			0
	Residential - Institutional and Dormitory Housing		5	18	100	28,835	30,661			24
	Residential - Manuf. Housing	Count	1	18	100	45	47			24
	Residential - Single Family Dwelling	Count	3	18	100	1,196	1,271			24
W-I 0	transin_ca	Length (ft)	12,953	18		4,171	0	37,778	57,078	0
Walnut_Grove		Count		13	100	554	548			18
	Commercial - Retail Trade Communication HAZUS SDURS	Count Count	1	13 17	47 100	288 354	201 389			17
	Delta Roads PBSJ Major Roads	Length (ft)	3,282	17 13	100 25	1.083	298			18 6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,278	13	25 25	4,856	1,335	1		6
	Gas Oil Production Fields	Area (Acres)	284	13	25 0	4,000	1,335	1		0
	gas oil wells	Count	5	15	0	0	0			0
				10						
	hc ambulatory	Count	1	3	13	0	0	1		5

	Residential - Duplex	Count	14	13	100	5,943	6,319	I		24
	Residential - Manuf. Housing	Count	7	13	100	416	431	l		24
	Residential - Single Family Dwelling	Count	142	13	100	37,839	40,235	50,858	55,332	24
Valthal_Tract	Commercial - Retail Trade	Count	1	9	30	78	47	1		11
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	9,300	g	25	3,069	844			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	34,712	9		6,942	1,909	ı		6
	Gas_Oil_Production_Fields	Area (Acres)	690	9		0	0	ŀ		0
	gas_oil_wells	Count	11	9		0	0	l		0
	Hwy_Bridge_HAZUS_SDURS	Count	1	14	25	2,000	550	l		3
	Natural Gas Pipeline	Length (ft)	2,032	9	0	660	0	ŀ		. 0
	Natural Gas Wells	Count	2	8	-	0	0	ľ		0
	Residential - Manuf. Housing	Count	38	9		1,992	2,060	ŀ		24
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	9		44	24			22
	Residential - Single Family Dwelling	Count	135	9	44	35,624	18,816			21
	transln_ca	Length (ft)	7,980	9	-	1,965	0	24,249	52,374	0
Vater Body	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	0	13	25	0	0	0	0	6
Vater Canal	Gas_Oil_Production_Fields	Area (Acres)	87	10	0	0	0			0
	gas_oil_wells	Count	4				0			0
	Natural Gas Pipeline	Length (ft)	1,178	10		224	0	0	224	0
Vater Zone 1	Boatlaunch	Count	11	13		1,100	1,210			. 0
	bridges_not_in_HAZUS	Count	9	25		4,500	1,238	1		3
	Commercial - Entertainment and Recreation	Count	9	11		17,934	11,146	l		12
	Commercial - Personal and Repair Services	Count	1	11		3,980	2,605			14
	Commercial - Professional/ Technical Services	Count	1	11		23,104	22,873			18
	Commercial - Retail Trade	Count	1	11		9,862	6,617			15
	Commercial - Wholesale Trade	Count	. 4	11		23,032	14,821	ł		13
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	71,910	11		23,730	6,526			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	212,007	11		42,401	11,660			6
	Fire_Stations_SDURS	Count	1	0			0	l		0
	Gas_Oil_Production_Fields	Area (Acres)	2,779	11			0			0
	gas_oil_wells	Count	31	10		0	0	i		0
	Government - General Services	Count	1	11		3,265	2,313	l		13
	Hazmat_HAZUS_SDURS	Count	3	22		0	0	ŀ		0
	hc_ambulatory	Count		5		0	0	ŀ		6
	Hwy_Bridge_HAZUS_SDURS	Count	4	21		8,000	2,200	İ		
	Hwy_HAZUS_SDURS	Length (ft)	92,588	11		30,554	8,402	İ		3
	Industrial - Heavy	Count	1	11		5,835	3,697	ľ		17
	Natural Gas Pipeline	Length (ft)	59,976	11		16,793	0	ļ		0
	Petroleum Pipelines	Length (ft)	5,368	11		1,127	0	ł		ļ <u> </u>
	Police Stations HAZUS SDURS	Count		0		4,130	0	1		<u> </u>
	Port_HAZUS_SDURS	Count	8	25		20,579	0	I		- 0
	rail 1000 nodes	Count	0.750	23		0 700	0			0
	Rail HAZUS SDURS	Length (ft)	9,756	11		2,780	765	1		1
	Residential - Duplex	Count		11		2,313	2,459	1		24
	Residential - Institutional and Dormitory Housing		1	11		11,261	5,235	- 1		14
	Residential - Manuf. Housing Residential - Multi-Dwellings - 5 to 9 units	Count	64	11		3,522	3,655	1		24
	Residential - Multi-Dwellings - 5 to 9 units Residential - Multi-Dwellings- 10 to 19 units	Count		11		5,037	5,356	- 1		24 24
	Residential - Multi-Dwellings- 10 to 19 units Residential - Multi-Dwellings- 20 to 49 units	Count	- 1	11		834 2,681	2.850	I		
	Residential - Mutt-Dwellings- 20 to 49 units Residential - Single Family Dwelling	Count	381	11 11				- 1		24
	Residential - Single Family Dwelling Residential - Triplex-Quads	Count Count	381	11		105,921	112,629	- 1		24 24
	Schools HAZUS SDURS		2	11		2,723	2,895	1		
		Count		1 27		1,180	117	I		0
	sewage_treat	Count	1			75,000	24,750	ł		12
	substation_ca tankfarms	Count	6	9		6,000	1,650	I		0
	 	Count	1 44 070	31		3,000	0	250 557	475 004	0
	transin_ca	Length (ft)	44,972	11		11,073	U	258,557	475,021	ı 0

	bridges not in HAZUS	Count	5	T 9	25	2,500	688	ł	Ī	3
l	Commercial - Entertainment and Recreation	Count	1	9			742			8
i	Commercial - Medical Clinics	Count	1				1,563			7
	Commercial - Personal and Repair Services	Count	1	9			2,377			10
1	Commercial - Professional/ Technical Services	Count	1	9			8,931			16
	Commercial - Retail Trade	Count	1	9		5,380	3,255			11
	Delta Roads PBSJ Major Roads	Length (ft)	635			210	58			6
	Delta Roads PBSJ Minor Roads	Length (ft)	85,438				4,699			6
	Gas Oil Production Fields	Area (Acres)	2,499				0			0
	gas oil wells	Count	40				Ö			0
	gas pipeline kinder morgan LS 9	Length (ft)	818				0			ŏ
	Hwy Bridge HAZUS SDURS	Count	5	7		10,000	2,750	-		3
i	Hwy HAZUS SDURS	Length (ft)	12,763			4,212	1,158			3
	mokelumne aqueduct pipe	Length (ft)	2,615			13.073	1,100			Ö
1	Natural Gas Pipeline	Length (ft)	39,493				0			Ö
1	Natural Gas Wells	Count	1	6		7,504	- ö			0
i	Petroleum Pipelines	Length (ft)	95,126			19,976	ő			ŏ
İ	Port HAZUS SDURS	Count	16		_	41,158	ő			0
İ	rail 1000 nodes	Count	6			41,100	- 0	l		
1	Rail Bridge HAZUS SDURS	Count	Ť	9		1,000	275			1
I	Rail HAZUS SDURS	Length (ft)	34,230			9,756	2,683			1
l	Religion - Churches and other Non-Profit	Count	1			2,858	1,540			5
I	Residential - Duplex	Count	2	9		2.181	1,182			22
I	Residential - Institutional and Dormitory Housing	Count	1			6,662	2,364			10
1	Residential - Manuf. Housing	Count	33			1,904	1,968			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	9	46	839	454			22
1	Residential - Multi-Dwellings- 20 to 49 units	Count	1	9	46	1,229	666			22
I	Residential - Single Family Dwelling	Count	1,084	9	44	397,019	209,699			21
	Residential - Triplex-Quads	Count	1	9	46	1,031	558			22
I	sewage_treat	Count	4	9	30	830,000	273,900			12
I	substation_ca	Count	2	9	25	2,000	550			0
1	transin_ca	Length (ft)	34,667	9	-	8,535	. 0			0
1	water_trans	Count	1	3	-	0	0	523,491	1,408,541	0
Water Zone 3	air_trans	Count	1	9	- 1	0	0			0
	Boatlaunch	Count	6	8	100	600	660			0
1	bridges not in HAZUS	Count	1	9	25	500	138			3
	Commercial - Professional/ Technical Services	Count	1	9		2,082	1,454			17
	Commercial - Rétail Trade	Count	1	9		486	305			12
	Delta Roads PBSJ Major Roads	Length (ft)	5,123	9	25	1,690	465			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	59,268	9		11,854	3,260			6
i	Gas_Oil_Production_Fields	Area (Acres)	841	9	0	Ō	0			0
	gas_oil_wells	Count	5	10	O O	O.	0	- 1		0
	Hwy_Bridge_HAZUS_SDURS	Count	5	8	25	10,000	2,750			3
	Hwy_HAZUS_SDURS	Length (ft)	3,508	9	25	1,157	318			3
	Natural Gas Pipeline	Length (ft)	7,114	9	0	1,636	O,			0
	rail_1000_nodes	Count	1	4	-	0	0			0
	Rail_HAZUS_SDURS	Length (ft)	187	9	25	53	15			1
	Residential - Duplex	Count	1	9	48	1,121	643			23
	Residential - Manuf. Housing	Count	47	9	100	2,582	2,669	i		24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	9	48	113	65			23
		Count	1	9	48	23	13			23
	Residential - Single Family Dwelling	Count	119			33,459	18,875	i		22
	Residential - Triplex-Quads	Count	1	9	48	501	288			23
	sewage_treat	Count	1	16		85,000	28,050			12
	transin_ca	Length (ft)	5,951	9		1,465	0	Į		0
Water Zone 4	water_trans	Count	1	9	-	0	0	59,967	154,321	0

•	Boatlaunch	Count	<u> </u>	5	100	300	330	ĺ	l	
	Commercial - Entertainment and Recreation	Count	1	8			992			8
	Commercial - Personal and Repair Services	Count	5				7,018			10
	Commercial - Professional/ Technical Services	Count	1 1	8			8,000			16
	Commercial - Retail Trade	Count	- ;	8						11
	Commercial - Wholesale Trade		<u> </u>				929			
	Delta Roads PBSJ Minor Roads	Count	07.005	8		3,140	1,813			9
		Length (ft)	87,395			17,479	4,807			6
	Gas_Oil_Production_Fields	Area (Acres)	135	8	0		0			0
	gas_oil_wells	Count	2	9		_	0			0
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	2,097	8	0		Ò			0
	Hwy_Bridge_HAZUS_SDURS	Count	3	9	25	6,000	1,650			3
	Hwy_HAZUS_SDURS	Length (ft)	7,757	8	25	2,560	704			3
	mokelumne_aqueduct_pipe	Length (ft)	8,377	8	0	41,887	0			0
	Natural Gas Pipeline	Length (ft)	21,265		0	4,040	0			O
	Rail_HAZUS_SDURS	Length (ft)	2,955	8	25	842	232			1
	Residential - Duplex	Count	5	8	46	2,322	1,258			22
	Residential - Manuf. Housing	Count	4	8		285	294			24
•	Residential - Multi-Dwellings - 5 to 9 units	Count	1	8	46	3,204	1,736			22
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	8	46	1,584	858	₽		22
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	8	46	726	393			22
	Residential - Single Family Dwelling	Count	198		44	56,813	30,007			21
	Residential - Triplex-Quads	Count	4	8	46	2,064	1,119			22
•	sewage treat	Count	1	9	30	2,554	-,,,,			12
1	transin ca	Length (ft)	8,997	8		2,897	0	62,140	173,431	120
Water Zone 5	bridges not in HAZUS	Count	0,007	6		500	138	02,170	170,701	3
	Commercial - Professional/ Technical Services	Count		11	50	654	468			18
	Commercial - Retail Trade	Count	 	11	38	1.782	1,157			14
	Delta Roads PBSJ Major Roads	Length (ft)	4,502	11	25	1,782	409			14
	Delta Roads PBSJ Minor Roads	Length (ft)	56,131	11	25	11.226				
	Gas Oil Production Fields		153		20	11,220	3,087			6
	gas oil wells	Area (Acres)		11		U	0			0
	V	Count	4	9		_	0			0
	Government - General Services	Count	1	11	31	2,280	1,575			11
	Hwy_Bridge_HAZUS_SDURS	Count	8	10		16,000	4,400			3
	Hwy_HAZUS_SDURS	Length (ft)	2,401	11	25	792	218			3
	Natural Gas Pipeline	Length (ft)	9,989	11		3,246	0			0
	Natural Gas Wells	Count	1	5		0	0			0
	Petroleum Pipelines	Length (ft)	1,469	11		308	0			0
	Rail_HAZUS_SDURS	Length (ft)	4,811	11	25	1,371	377	ŀ		1
	Residential - Institutional and Dormitory Housing		1	11	26	5,663	2,408	ł		12
	Residential - Manuf. Housing	Count	11	11	100	699	725			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	11	50	480	287	1		24
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	11	50	740	442	- 1		24
	Residential - Single Family Dwelling	Count	229	11	49	64,341	38,042	1		23
	transin_ca	Length (ft)	33,209	11	-	8,176	Ò	53,732	119,745	0
Webb_Tract	Gas_Oil_Production_Fields	Area (Acres)	83	22	0	0	0			0
•	gas_oil_wells	Count	18	20	0	Ò	ō	ı		0
	Natural Gas Pipeline	Length (ft)	1,291	22	0	245	0			Ö
	Natural Gas Wells	Count	1	16		0	0			0
	Residential - Single Family Dwelling	Count	1	22	100	171	182	182	416	
West Sacramento North	Agriculture	Count	2	13	100	9,592	9,074	.02	710	18
	air trans	Count	2	14	100	9,092	9,074			10
	Airport Points	Count	2	9	25	 				0
	Boatlaunch	Count	4	20	100	100	110	l		- 0
			1					i		<u> </u>
		Count		46	\ \CE					
	bridges_not_in_HAZUS	Count	9	10		4,500	1,238	l		3
	bridges not in HAZUS Commercial - Banks	Count	5	13	37	8,464	6,378			13
	bridges_not_in_HAZUS			13 13						3 13 15 12

	Count	49	13	47	115,090	93,050	i !		
Commercial - Professional and Technical Service		5	13	100	160,910	177,001	i !		
	Count	2	13	100	130,642	143,706	i !		
	Count	75	13	45	344,890	275,050	i .		
Delta_Roads_PBSJ_Major_Roads L	ength (ft)	98,688	13	25	32,567	8,956	i .	ł l	
Delta_Roads_PBSJ_Minor_Roads L	ength (ft)	427,953	13	25	85,591	23,537			L
Government - Emergency Response C	count	1	13	44	5,740	4,041	i .	1	L
Government - General Services C	Count	3	13	44	7,948	5,945	i !	1	
Hazmat_HAZUS_SDURS C	Count	15	5	-	0	0			
hc_ambulatory C	Count	35	11	27	0	0			
hc_hospital C	Count	2	21	100	0	0			
hc nursing res C	ount	3	13	38	0	0			
Hwy Bridge HAZUS SDURS C	Count	19	10	25	38,000	10,450	i !		
Hwy HAZUS SDURS L	ength (ft)	44,710	13	25	14,754	4,057	i l	ĺ	
Industrial - Construction C	ount	10	13	100	39,344	36,354			
	Count	9	13	42	145,508	92,194			
	ount	9	13	100	61,195	54,390	1		
	ount	5	13	48	39,285	25,928			
	Count	3	13	-	Ó	0			
	ength (ft)	38,321	13	0	9,963	0			
	ength (ft)	33,586	13	0	7.053	0			
	Count	1	0	-	0	0			
<u> </u>	Count	1	4	12	4,130	1,254			
	Count	3	21	0	7,717	1,201			<u> </u>
	Count	15	9			0			
	Count	4	7	25	4,000	1,100			
	Count	4	18	100	10,290	11,319			
	ength (ft)	69,908	13	25	19,924	5,479			
	Count	09,300	13	30	28,462	17,846			<u> </u>
	Count	202	13	100	76,617	81,469	i l		<u> </u>
Residential - Institutional and Dormitory Housing C		7	13	38	33,228	17,934	ĺ		-
	Count	1,404	13	100	71,702	74,402	i !		<u> </u>
	Count	9	13	100	81,113	86,250			
	Count	3	13	100	91,997	97,823	í !		
	Count	31	13	100	91,997	97,823	i .		<u> </u>
	Count	1	13	100	88,788		i .		
	Count	9	13	100	52,085	94,411 55,383	i .		\vdash
		1							
	ount		13	38	6,755	3,646			
	ount	5,065	13	100	1,094,474	1,163,790	i !		<u> </u>
	ount	109	13	100	49,364	52,490			<u> </u>
	ount	6	12	24	7,080	4,206			<u> </u>
	ount	1	33	30	100,000	33,000	i !	į į	<u> </u>
	ount	5	5	25	0	0	i !		L
	ount	1	14	25	1,000	275	1		
	ount	2	0	-	6,000	Ò		į į	
	ength (ft)	39,059	13	-	9,617	. 0	i !		L
	Count	1	13	-	0	0	i !		L
	count	2	1	0	157,176	0	, ,	ı	
	ount	4	14	-	0	. 0	2,929,836	3,428,905	
	ount	1	14	-	0	. 0			
	ount	1	7	25	500	138	į .		
Commercial - Personal and Repair Services C	ount	3	14	50	5,880	4,851		l l	
	Count	1	14	100	7,536	8,290		l l	
Commercial - Retail Trade C	ount	1	14	100	6,750	7,425		į ,	
	ount	2	14	49	10,098	8,275		į ,	
Confinercial - Wholesale Hade							i I	,	
	ount	2	15	100	2361	260	1 1	,	
Communication_HAZUS_SDURS C	count ength (ft)	52,500	15 14	100 25	236 17,325	260 4,764			

West Sacramento South 1

1	O O'' D d E'- E'- Id-	[A (A)]	144	4.4	0	0	0			0
	Gas_Oil_Production_Fields	Area (Acres)	24	14 14	0		0	. 1	1	- 0
	gas_oil_wells	Count	24	13	34	Ö	0			12
	hc_ambulatory	Count	2			<u> </u>	<u> </u>		1	24
	hc_nursing_res	Count		17	100	·	0 000		1	
	Hwy_HAZUS_SDURS	Length (ft)	24,905	14	25		2,260			3
1	Petroleum Pipelines	Length (ft)	29,561	14	0		075			0
	Rail_Bridge_HAZUS_SDURS	Count	1	7	25		275			
	Rail_HAZUS_SDURS	Length (ft)	17,644	14	25	5,029	1,383			1
	Residential - Duplex	Count	6	14	100	4,637	4,930	i I		24
	Residential - Manuf. Housing	Count	15	14	100	843	875	. 1	1	24
		Count	1	14	100	1,401	1,490		1	24
	Residential - Single Family Dwelling	Count	2,174	14	100	600,855	638,909		1	24
	Schools_HAZUS_SDURS	Count	2	16	45		1,674			16
	substation_ca	Count	1	16	25	1,000	275		1	0
	transin_ca	Length (ft)	7,712	14		1,899	0		!	0
	US_cell_towers	Count	2	13	•	500	O	698,131	726,118	0
West Sacramento South 2	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,073	6	25		279			6
	Petroleum Pipelines	Length (ft)	2,537	6	0	533	0	279	1,547	0
Woodward_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	28,139	19	25	5,628	1,548			6
l -	gas pipeline kinder morgan LS 9	Length (ft)	7,820	19	0		0	, 1		0
	mokelumne aqueduct pipe	Length (ft)	23,350	19	-	116,749	9,760	ı		1
	Rail HAZUS SDURS	Length (ft)	2,290	0	0		0	11,308	124,671	0
Wright-Elmwood Tract	Delta Roads PBSJ Minor Roads	Length (ft)	9,701	14	25		534			6
i i i i i i i i i i i i i i i i i i i	gas oil wells	Count	3,701	15	20		0	. 1		Ď
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	14	100	81	86		1	24
		Count		14	100	27	29	. 1	!	24
	Residential - Single Family Dwelling	Count	7	14	100		1,357			24
	transin ca	Length (ft)	53,221	14	100	13,104	1,337	2,006	16,429	
Valo Bynasa		Count	20,221	11	35	4,476	2,831	2,000	10,420	13
Yolo_Bypass		Count	- 4	11	50		6,602	i	1	18
	Commercial - Professional/ recrimical Services	Count		11	38		2,447			14
	Commercial - Wholesale Trade	Count	4	11	32		12,506		1	12
			488	11	25		12,506		1	6
	Delta_Roads_PBSJ_Major_Roads	Length (ft)			25 25	161				
	Delta Roads PBSJ Minor Roads	Length (ft)	117,304	11			6,452 0			-
	Gas_Oil_Production_Fields	Area (Acres)	6,636	11 10	0		0	i i		
	gas_oil_wells	Count	245					i		3
	Hwy_Bridge_HAZUS_SDURS	Count	40.500	15	25		1,100			
	Hwy HAZUS SDURS	Length (ft)	16,530	11	25		1,500			3
	Natural Gas Pipeline	Length (ft)	66,803	11	0		0			0
	Natural Gas Wells	Count	10	8		0	0	į		0
	Petroleum Pipelines	Length (ft)	58,521	11	0		0	į		0
	Rail_HAZUS_SDURS	Length (ft)	21,229	11	25		1,664			1
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	11	50		28			24
		Count	1	11	50		4			24
	Residential - Single Family Dwelling	Count	9	11	49		1,328		ا	23
	transln_ca	Length (ft)	124,041	11	-	30,540	0	36,506	134,731	0
Zone 120	Commercial - Retail Trade	Count	1	8	26		521			9
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	30,536	8	25		2,771			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	44,789	8	25		2,463			6
l	Gas Oil Production Fields	Area (Acres)	1,656	8	Ó		0	, I		0
l	gas_oil_wells	Count	37	9	0		0			0
1	Natural Gas Pipeline	Length (ft)	18,811	8	0	6,113	0			0
1				11			Ó		,	0
	Natural Gas Wells	Count	14	111		<u> </u>	V _I		`	
		Count Count	14	8	100	822	844		: 	24
	Natural Gas Wells				100 39	822			!	24 19
	Natural Gas Wells Residential - Manuf. Housing	Count	15	8		822	844	16,735	52,028	24

Zone 14	gas oil wells	Count	2	11	0	0	0			0
	Natural Gas Pipeline	Length (ft)	2,272	16			Ö	o	432	Ö
Zone 148	Commercial - Retail Trade	Count	1	13			117		1,5%	18
	Delta Roads PBSJ Major Roads	Length (ft)	354	13			32		1	6
	Delta Roads PBSJ Minor Roads	Length (ft)	16,215	13			892		i	6
	gas oil wells	Count	10,2,6	16			002			Ö
	Hwy HAZUS SDURS	Length (ft)	9,686	13			879			3
	Residential - Manuf. Housing	Count	7	13			398		İ	24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	13			207			24
	Residential - Single Family Dwelling	Count	29	13			6,160			24
	Schools HAZUS SDURS	Count	1	12			701			9
	transin_ca	Length (ft)	7,364	13		1,813	,,,	9,386	16,027	ő
Zone 155	Delta Roads PBSJ Minor Roads	Length (ft)	542	9			30	3,000	10,027	6
2011e 133	transin ca	Length (ft)	769	9		189	0	30	298	0
Zone 158 (Smith Tract 2)	Boatlaunch		709	0				30	∠90	
Zone 156 (Smith Tract_2)		Count	1	0			0			0
	Commercial - Personal and Repair Services	Count	2	2	12		1,626			4
	Commercial - Professional/ Technical Services	Count	1	2	16		1,692			6
	Commercial - Retail Trade	Count	1	2	14		2,662			5
	Commercial - Wholesale Trade	Count	1 2 - 1	2	8	.,,	2,107			3
	Delta Roads PBSJ Major Roads	Length (ft)	6,756	2	25	2,230	613			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	91,854	2	25	18,371	5,052			6
	Hazmat_HAZUS_SDURS	Count	8	2		0	. 0			0
	hc_ambulatory	Count	2	1	11	0	0			4
	hc_nursing_res	Count	1	0	0		0			0
	Hwy_Bridge_HAZUS_SDURS	Count	9	1	25		4,950			3
	Hwy_HAZUS_SDURS	Length (ft)	7,665	2	25		696			. 3
	Residential - Duplex	Count	44	2	23		4,805			11
	Residential - Manuf. Housing	Count	25	2	100		1,130			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	2	23		19			11
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	2	23	2,864	729			
	Residential - Single Family Dwelling	Count	1,293	2	21	269,234	65,056			10
	Residential - Triplex-Quads	Count	53	2	23	23,969	6,099			11
	Schools_HAZUS_SDURS	Count	1	3	7	1,180	402			3
	utilities	Count	1	2	-	Ó	0	97,637	385,752	0
Zone 160	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,297	6	25	1,859	511			6
	Residential - Single Family Dwelling	Count	71	6	33	13,904	5,498	6,009	15,763	16
Zone 162	Delta Roads PBSJ Minor Roads	Length (ft)	4,168	9	25	834	229			6
	Natural Gas Pipeline	Length (ft)	2,641	9		502	0			0
	Residential - Manuf. Housing	Count	1	9		63	65			24
	Residential - Single Family Dwelling	Count	10	9		3,207	1,694	1,988	4,606	21
Zone 171	Boatlaunch	Count	1	7	100	100	110	.,500	.,500	0
	Commercial - Retail Trade	Count	1	5		90	46			6
	Delta Roads PBSJ Major Roads	Length (ft)	11,829	5		3,904	1,074			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,990	5		798	219			6
	Gas Oil Production Fields	Area (Acres)	1,318	5		7 90	219			0
	gas oil wells	Count	19	4	0	0	0			0
	Hwy Bridge HAZUS SDURS	Count	6	7	25	12,000	3,300			9
	Hwy HAZUS SDURS	Length (ft)	5.715	5		1,886	519			3
	Natural Gas Pipeline	Length (ft)	20,613	5		6,699	0			0
	Rail HAZUS SDURS	Length (ft)	9,172	5		2,614	719	1		<u> </u>
	Residential - Single Family Dwelling	Count	9,172	5		1,187	415	6,402	29,277	14
Zone 185	Commercial - Personal and Repair Services	Count		4		2.802		0,402	29,211	
		Count		i	, -		1,264			5
•			1	4		8,486	4,247			8
		Count	100.000	4		1,424	666			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	100,662	4		20,132	5,536			6
	gas_oil_wells	Count		0	0		0			0
	hc_nursing_res	Count	4	71	16	0	0			8

	L	10 1								
	Hwy_Bridge_HAZUS_SDURS	Count	3	2	25	6,000	1,650	I	Į.	
	Hwy_HAZUS_SDURS	Length (ft)	3,862	4	25	1,275	350	[ļ	
	Residential - Duplex	Count	43	4	26	16,425	4,938		Į.	
	Residential - Institutional and Dormitory Hou		5	4	14	34,389	7,439	ŀ	Į.	
	Residential - Manuf. Housing	Count	10	4	100	474	464		l.	2
	Residential - Multi-Dwellings - 50+ units	Count	1	4	26	24,318	7,312		Į.	
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	4	26	795	239		1	
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	4	26	4,662	1,402	- 1	- 1	
	Residential - Nursing Home	Count	2	4	14	8,610	1,863	1	l	
	Residential - Single Family Dwelling	Count	2,231	4	26	639,921	193,576	1	l	
	Residential - Triplex-Quads	Count	7	4	26	3,854	1,159		[
	Schools_HAZUS_SDURS	Count	1	6	11	1,180	578	232,683	774,746	
ne 186	transin_ca	Length (ft)	13,335	9	-	3,283	0	0	3,283	
ne 197	Commercial - Professional/ Technical Servic	es Count	1	14	100	4	4			
	Commercial - Retail Trade	Count	1	14	100	56	62		T I	
	Delta Roads PBSJ Major Roads	Length (ft)	4,871	14	25	1,607	442		ŀ	
	Delta Roads PBSJ Minor Roads	Length (ft)	31,146	14	25	6,229	1,713	ŀ	ŀ	
	gas oil wells	Count	- J1,1-3	14	0	0,223	1,7 10		ŀ	
	Hwy HAZUS SDURS	Length (ft)	35,964	14	25	11,868	3,264		ŀ	
	Natural Gas Pipeline	Length (ft)	5,539	14	0	1,800	0,204		ŀ	
	rail 1000 nodes	Count	3,039	8		1,800	0		ŀ	
	Residential - Manuf. Housing	Count	16	14	100	801	831	•	ŀ	
	Residential - Multi-Dwellings- 10 to 19 units	Count	10	14	100	402	427		ŀ	
	Residential - Multi-Dwellings- 10 to 19 units Residential - Single Family Dwelling	Count	57	14	100	11,969	12,727	10 470	24 720	
ne 206								19,470	34,736	
me 200	bridges_not_in_HAZUS	Count	3	2	25	3,000	825		ļ	
	Commercial - Entertainment and Recreation		2	4	14	4,100	1,939	1	Į.	
	Commercial - Personal and Repair Services		2	4	16	4,190	2,028	1	Į.	
	Commercial - Professional/ Technical Service			4	28	3,998	2,199		· .	
	Commercial - Retail Trade	Count	1	4	18	2,090	1,035		l.	
	Commercial - Wholesale Trade	Count	2	4	13	8,074	3,775		Į.	
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	14,002	4	25	4,621	1,271		L	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,511	4	25	1,502	413			
	Elec_Power_HAZUS_SDURS	Count	1	3	49	129,800	69,962			
	Gas_Oil_Production_Fields	Area (Acres)	113	4	0	0	0			
	gas oil wells	Count	9	3	0	0	O.		ľ	
	Government - General Services	Count	1	4	12	1,755	533		Г	
	Hazmat HAZUS SDURS	Count	28	1		0	0		ľ	
	mokelumne_aqueduct_pipe	Length (ft)	4,990	4	0	24,948	0		ŀ	
	Oil_HAZUS SDURS	Count	1	3	20	118	26	- 1	ľ	
	Petroleum Pipelines	Length (ft)	56,141	4	0	11,790	0		ŀ	
	rail 1000 nodes	Count	3	3		0	ő		F	
	Rail HAZUS SDURS	Length (ft)	23,649	4	25	6,740	1,853	1	F	
	Residential - Institutional and Dormitory House		1	4	15	5,637	1,385	1	F	
	transin ca	Length (ft)	9,174	4		2,259		87,243	214,621	
ne 207	Delta Roads PBSJ Minor Roads	Length (ft)	5,101	4	25	1,020	281	07,270	217,021	
	Petroleum Pipelines	Length (ft)	2,447		25 0	514	401	l	ŀ	
	Rail HAZUS SDURS	Length (ft)	20,443	4	25	5,826	1,602	1 000	7 200	
ne 214	Gas Oil Production Fields							1,883	7,360	
HE 4.14		Area (Acres)	174	10	0	9	0	l		
	gas_oil_wells	Count	9	10	0	0	0	l	Į.	
	Natural Gas Pipeline	Length (ft)	1,418	10	O)	269	0			
	Natural Gas Wells	Count	2	9]	0	0	0	269	
ne 216	gas_oil_wells	Count	1	14	0	0	0		T	
	Residential - Single Family Dwelling	Count	2	9	44	701	370	370	701	
ne 31	Residential - Single Family Dwelling	Count	2	5	33	645	255	255	645	
ne 33	Residential - Single Family Dwelling	Count	1	6	33	245	97	97	245	
one 36	Commercial - Professional/ Technical Service		- 4	3	16	38	15			
one 36				ai						

	In the production of	1 (1.40)						,		
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	458	3	25	151	42			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,556	3	25	711	196			
	Hwy_HAZUS_SDURS	Length (ft)	782	3	25	258	71			
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	3	23	26	6			11
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	3	23	45	11			11
	Residential - Single Family Dwelling	Count	21	3	21	7,130	1,723			10
	solid_waste_facilities	Count	1	3	25	0	0			(
	transln_ca	Length (ft)	3,946	3		971	0	2,095	9,414	. (
Zone 37	Commercial - Entertainment and Recreation	Count	1	3	. 11	3,542	1,266			4
	Commercial - Personal and Repair Services	Count	2	3	12	4,142	1,504			4
	Commercial - Professional/ Technical Services	Count	1	3	16	10,296	3,964			(
	Commercial - Retail Trade	Count	1	3	14	3,804	1,423			
	Commercial - Wholesale Trade	Count	1	3	8	4,438	1,513			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,472	3	25	1,476	406			(
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	15,211	3	25	3,042	837			(
	hc_ambulatory	Count	1	4	14	0	0			
	Hwy_HAZUS_SDURS	Length (ft)	388	3	25	128	35			
	Industrial - Heavy	Count	3	3	12	18,748	7,300		-	4
	Industrial - Light	Count	1	3	14	5,840	2,325	*		
	intermodal_terminal_facilities	Count	1	O'	-1	0	0			
	Petroleum Pipelines	Length (ft)	7,203	3	0	1,513	0			
	rail_1000_nodes	Count	1	0		0	Ö			
	Rail_Facility HAZUS SDURS	Count	1	0	0	2,572	Ö			
'	Rail HAZUS SDURS	Length (ft)	6,428	3	25	1,832	504			
	Residential - Duplex	Count	10	3	23	4,293	1.092			1.
	Residential - Manuf. Housing	Count	154	3	100	7,881	7,427			24
	Residential - Multi-Dwellings - 10 to 19 units	Count	1	3	23	3,204	815			11
	Residential - Multi-Dwellings - 20 to 49 units	Count	1	3	23	1,292,510	328,901			11
	Residential - Multi-Dwellings - 5 to 9 units	Count	4	3	23	10,110	2,573			11
•	Residential - Multi-Dwellings- 10 to 19 units	Count	1	3	23	2,048	521			11
	Residential - Single Family Dwelling	Count	206	3	21	48,230	11,654			10
	Residential - Triplex-Quads	Count	10	3	23	4,169	1,061			11
	Waste Water HAZUS SDURS	Count	1	ò	ő	78,588	0			
	water trans	Count	2	Ö		0	Ö	375,120	1,512,403	
Zone 38	Colleges and Universities	Count	1	4	9	13,195	6,096	0,0,120	1,012,100	3
	Commercial - Entertainment and Recreation	Count	1	4	12	2,734	1,218			
	Commercial - Personal and Repair Services	Count	3	4	13	6,408	2,890			
	Commercial - Professional/ Technical Services	Count	1	4	22	4,208	2,106			
	Commercial - Professional/ Technical Services	Count	- 4	4	16	4,206	1,910			
	Commercial - Wholesale Trade	Count	3	4	11	13,234	5,823			
	Delta Roads PBSJ Major Roads	Length (ft)	2,630	4	25	868	239			
	Delta Roads PBSJ Minor Roads	Length (ft)	15,931	4	25	3,186	876	i		6
	Hazmat HAZUS SDURS	Count	15,931	0	- 40	3,100	0			
	Hwy Bridge HAZUS SDURS	Count	- 4	0	- 0	2.000	0			(
	Hwy HAZUS SDURS	Length (ft)	1,607	<u>\</u>	25	530	146			
	Industrial - Food-Drug-Chemicals	Count	1,007	4	19					3
	Industrial - Heavy		 	4		9,420	4,020			<u> </u>
	Natural Gas Pipeline	Count	874	4	15	3,905	1,598			Ę
		Length (ft)		4		166	0			(
	Petroleum Pipelines	Length (ft)	80,208	4	0	16,844	0	į		(
	Port_HAZUS_SDURS	Count	1	2	0	2,572	0			
	rail_1000_nodes	Count	3	0	-	0	0			
	Rail_Facility_HAZUS_SDURS	Count	1	0	0	2,572	0	j		(
	Rail_HAZUS_SDURS	Length (ft)	26,920	4	25	7,672	2,110			1
	Residential - Duplex	Count	6	4	26	1,656	498			12
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	4	26	186	56			12
	Residential - Multi-Dwellings- 20 to 49 units	Count	1]	4	26	450	135			12
	Residential - Single Family Dwelling	Count	34		26	8,861	2,680			12

	transln_ca	Length (ft)	1,578	4		389	0	32,402	105,142	0
Zone 64	Commercial - Professional/ Technical Services	Count	1	3	16	504	194			6
	Commercial - Retail Trade	Count	1	3		444	166	1		5
	Delta Roads PBSJ Minor Roads	Length (ft)	240	3		48	13	i		6
	Gas Oil Production Fields	Area (Acres)	175	3	0	0	0			0
	gas oil wells	Count	1	0	0	0	0			0
	Hwy HAZUS SDURS	Length (ft)	3,245	3	25	1,071	294	į.		3
	Industrial - Construction	Count	1	3	31	2,304	1,039	1		11
	Natural Gas Pipeline	Length (ft)	2,174	3	0	413	0			0
	Residential - Manuf. Housing	Count	2	3		143	134	İ		24
	Residential - Single Family Dwelling	Count	20	3		5,372	1,298	3,139	10,298	10
Zone 65	Delta Roads PBSJ Minor Roads	Length (ft)	1,749	4	25	350	96	96	350	6
Zone 69	Delta Roads PBSJ Minor Roads	Length (ft)	4,234	6		847	233		000	6
20116 03	Gas Oil Production Fields	Area (Acres)	18	6		7	233			0
	gas oil wells	Count	2	6		Ó		233	847	0
Zone 74						<u> </u>		200	047	7
Zone /4	Commercial - Retail Trade	Count	47.050	5		5 000	1 004			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	17,859	5	25	5,893	1,621	ł		6
l	Delta Roads PBSJ Minor Roads	Length (ft)	37,247	5		7,449	2,049	l l		6
	Gas Oil Production Fields	Area (Acres)	1,144	5		0	0			0
*	gas_oil_wells	Count	52	6		0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	7,891	5		2,604	716	I		3
	Natural Gas Pipeline	Length (ft)	29,191	5	0	5,546	0			0
	Natural Gas Wells	Count	1	7		0	0			0
	Petroleum Pipelines	Length (ft)	8,302	5	0	1,743	0			C
	Rail_HAZUS_SDURS	Length (ft)	8,166	5	25	2,327	640			1
	Residential - Duplex	Count	1	5	32	273	107			15
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	5	32	321	125			15
	Residential - Multi-Dwellings- 20 to 49 units	Count	1	5	32	54	21			15
	Residential - Single Family Dwelling	Count	38	5	33	11,798	4,665			16
•	Residential - Triplex-Quads	Count	1	5	32	533	208	1		15
	transin_ca	Length (ft)	42,296	5	- 1	10,414	0	10,153	48,958	0
Zone 75	bridges_not_in_HAZUS	Count	2	9	25	2,000	550			3
	Commercial - Retail Trade	Count	1	8	30	616	373			11
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	424	8	25	140	39			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	29,348	8	25	5,870	1,614			6
	gas_oil_wells	Count	5	8	Ö	0	Ó			0
	Hwy_HAZUS_SDURS	Length (ft)	8,837	8	25	2,916	802			3
	Residential - Manuf. Housing	Count	3	8	100	141	145			24
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	8	46	75	41			22
	Residential - Single Family Dwelling	Count	48	8	44	13,914	7,349			21
	solid_waste_facilities	Count	1	9	25	0	0	10,912	25,672	0
Zone 77	Commercial - Professional/ Technical Services	Count	1	3	16	264	102			6
	Commercial - Retail Trade	Count	1	3	14	206	77			. 5
	Delta Roads PBSJ Major Roads	Length (ft)	8,434	3	25	2,783	765	1		6
	Delta Roads PBSJ Minor Roads	Length (ft)	2,010	3	25	402	111	1		6
	Rail HAZUS SDURS	Length (ft)	4,345	3	25	1,238	341	1		1
	Residential - Multi-Dwellings- 10 to 19 units	Count	1	3	23	9		l		11
	Residential - Single Family Dwelling	Count	19	3	21	5,873	1,419	i		10
	transin ca	Length (ft)	4,318	3		1.063	-,,,,	2,816	11,838	0
Zone 78	bridges not in HAZUS	Count	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7	25	4,000	1,100	_,_,,,,	. ,,556	3
, 		Count	1	6	38	470	302	į.		14
	Commercial - Retail Trade	Count	1	6	23	194	109			. 8
	Delta Roads PBSJ Major Roads	Length (ft)	10.243	6	25	3,380	930		,	6
	Delta Roads PBSJ Minor Roads	Length (ft)	19,483	6	25	3,380	1,072	į		6
	gas oil wells	Count	19,463	7	25	3,897	1,072	ŀ	ļ	
	Hwy HAZUS SDURS	Length (ft)	9,497	6	25		862	1	į	0
	Natural Gas Pipeline					3,134		1	j	3
	Inatural Gas Pipelifie	Length (ft)	51	6	0	17	0	1		. 0

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	Rail HAZUS SDURS	Length (ft)	6,016	6	25	1,715	471	1	ı	1
	Residential - Manuf. Housing	Count	0,010	6		62	63			24
	Residential - Multi-Dwellings- 10 to 19 units	Count		6			16			18
	Residential - Single Family Dwelling	Count	39	6		11,273	5,034			18
	transin ca	Length (ft)	4,101	6		1,010	0,001	9,959	29,185	
Zone 79	Delta Roads PBSJ Minor Roads	Length (ft)	25,248	5		5,050	1,389	0,000	20,.00	6
Lone 10	gas oil wells	Count	7	5	0		1,000			ŏ
	Hwy Bridge HAZUS SDURS	Count	1	<u>A</u>	25	2,000	550			
	Natural Gas Pipeline	Length (ft)	7,315	5	0		000			0
	Residential - Single Family Dwelling	Count	7,010	5		801	317	2,255	9,241	16
Zone 80	Delta Roads PBSJ Major Roads	Length (ft)	2,593	4	25	856	235	2,200	0,2,11	6
20110 00	Delta Roads PBSJ Minor Roads	Length (ft)	27,373		25	5,475	1,506			<u>-</u> 6
	Gas Oil Production Fields	Area (Acres)	738	-	0	0,770	1,000			Ö
	gas oil wells	Count	9	4	0		ŏ			Hŏ
	Hwy Bridge HAZUS SDURS	Count	1	5		2,000	550			<u> </u>
	Natural Gas Pipeline	Length (ft)	6,720	4	0		000			H - 6
	Natural Gas Wells	Count	3,120	3	<u> </u>	1,2	- ŏ			ŏ
	Petroleum Pipelines	Length (ft)	1,030	4	0		Ö			0
	Residential - Single Family Dwelling	Count	1,000	À	29	500	175			14
	transin ca	Length (ft)	2,624	4		646	1,0	2,466	10.969	
Zone 81	Delta Roads PBSJ Minor Roads	Length (ft)	16,624	7	25	3,325	914		,	6
20110 01	gas oil wells	Count	9	7	0		0.7			0
	Hwy Bridge HAZUS SDURS	Count	1		25	2.000	550			3
	Natural Gas Pipeline	Length (ft)	6,490	7	0	1,233	0			<u>ö</u>
	Natural Gas Pipeline	Length (ft)	6,490	7	, ŏ	1,233	ň			0
	Natural Gas Wells	Count	3,100	10		1,200	Ö			Ö
	Residential - Manuf. Housing	Count	<u></u> 1	7	100	44	45			24
	Residential - Single Family Dwelling	Count	8	7	37	2,004	895	2,404	9,839	
Zone 82	Delta Roads PBSJ Major Roads	Length (ft)	3,108	5		1,026	282	,	-,	6
	Delta Roads PBSJ Minor Roads	Length (ft)	703	5		141	39			6
	Hwy HAZUS SDURS	Length (ft)	3,110	5			282			3
	Natural Gas Pipeline	Length (ft)	10,954	5			0			ō
	Natural Gas Pipeline	Length (ft)	10,954	5	0		0			0
•	transin ca	Length (ft)	2,387	5	-	769	0	603	7,124	0
Zone 90	Commercial - Professional/ Technical Services	Count	1	3	22	344	159			8
	Commercial - Retail Trade	Count	1	3		1,810	776			6
	Delta Roads PBSJ Major Roads	Length (ft)	9.390	3	25	3,099	852	-		6
	Delta_Roads PBSJ Minor Roads	Length (ft)	14,262	3	25	2,852	784			6
	Hazmat HAZUS SDURS	Count	33	3		0	0			0
	Hwy_Bridge_HAZUS_SDURS	Count	3	2	25	6,000	1,650			3
	Hwy_HAZUS_SDURS	Length (ft)	4,140	3	25	1,366	376			3
	Industrial - Food-Drug-Chemicals	Count	1	3	19	10,485	4,406			7
		Count	1	2	20	118	26			0
	Oil_HAZUS SDURS						0			0
	Petroleum Pipelines	Length (ft)	119,148	3	0	25,021	V			
		Length (ft) Length (ft)	119,148 9,484	3	25	25,021	743			1
	Petroleum Pipelines			3 3 3	_					1
	Petroleum Pipelines Rail_HAZUS_SDURS	Length (ft)	9,484	3 3 3	25	2,703 10,518	743			1 12 0
	Petroleum Pipelines Rail_HAZUS_SDURS Residential - Single Family Dwelling	Length (ft) Count	9,484 38	3 3 3 1 0	25 26	2,703 10,518	743 3,182			1 12

Table 7- 2b: Estimate Summary of Asset Cost Damage by Island - 100-year Flood

Island Name	Total Repair Costs (\$1,000)	Total Asset Value (\$1,000)	Percent of Total Value Damaged (%)
Bacon_Island	31,586	43,916	72
Bethel_Island	240,145	254,118	95
Bishop_Tract	60,201	141,119	43
Bixler_Tract	455	1,161	39
Boggs_Tract	607,404	1,645,372	37
Bouldin Island	14,359	25,897	55
Brack Tract	3,088	14,021	22
Bradford Island	11,554	21,630	53
Brannan-Andrus Island	139,833	216,612	65
Browns Island	0	210,012	0
Byron Tract 1	38,550	124,406	31
Byron Tract 2	5,729	20,838	27
Byron_Tract 3	15,684	43,815	36
Cache Haas Tract 1	15,252	65,884	23
Cache Haas Tract 2	1,997	3,425	58
Canal Ranch	10,564	20,757	51
Chipps_Island		20,757 0	
Clifton Court Forebay Water	0		0
	1,107	4,278	26
Coney_Island	23,296	21,921	106
Deadhorse Island	281	998	28
Decker_Island	0	1,536	0
Discovery_Bay	603,770	1,146,004	53
Egbert_Tract	8,156	33,603	24
Elk_Grove 1	687,408	1,347,255	51
Empire_Tract	3,426	9,790	35
Fabian_Tract	16,775	39,116	43
Fay Island	6	22	28
Glanville_Tract	16,305	52,804	- 31
Gliole_District	2,566	7,676	33
Grand Island	198,075	253,978	78
Hastings_Tract 2	5,301	13,584	39
Holland_Land	1,216	3,637	33
Holland_Tract	6,982	15,787	44
Honker_Bay_Club	119	2,109	6
Hotchkiss_Tract 1	60,087	126,855	47
Hotchkiss_Tract 2	241	1,326	18
Jersey_Island	3,266	24,614	13
Jones_Tract-Upper_and_Lower	82,676	507,972	16
Kasson_District	1,857	6,153	30
King Island	37,209	44,049	84
Libby McNeil Tract 1	9,011	19,259	47
Libby_McNeil_Tract 2	675	1,203	56
Liberte Island	2,518	14,599	17
Lincoln Village Tract	563,017	1,262,742	45
Lisbon District	31,502	78,015	40
Little Holland Tract	01,002	0	0
Little Egbert⊡ Tract	13,043	21,346	61
Lower_Roberts Island	393	1,149	34
Mandeville Island	1,433	5,212	28
McCormack_Williamson_Tract	1,433	4,093	26
McDonald Tract	21,141		
McMullin Ranch-River Junction Tract		36,246	58
	14,490	42,818	34
Medford_Island	4,637	8,559	54

Merritt Island	27,914	40,825	60
Middle_Roberts_Island	89,924	565,645	
Netherlands 1	1,652	3,940	
Netherlands 2	127,144	196,851	65
New_Hope_Tract	36,508	88,106	
Orwood_Tract	55,377	251,172	
Palm_Tract	6,973	22,562	
Paradise Junction	41,139	130,789	31
Pescadero	81,456	225,692	36
Peter Pocket	450	2,138	21
Pico Naglee Tract	206,610	388,892	53
Pierson_Tract	59,177	89,103	66
Pittsburg	18,510	65,772	28
Prospect Island	1,050	1,788	59
Quimby Island	271	626	
RD 17 (Mossdale)	375,535	969,933	
Rindge Tract	6,017	18,516	
Rio_Blanco_Tract	1,212	9,988	
Roberts_Island	0	100	
Rough_and_Ready_Island	47,574	103,353	46
Ryer Island	30,185	61,494	49
Sacramento_Pocket_Area	15,214,659	28,781,540	53
Sargent_Barnhart_Tract 1	12,326	62,929	20
Sargent Barnhart Tract 2	869,224	1,973,371	44
Sargent Barnhart Tract 3	16,191	26,651	61
Schafter-Pintail Tract	1,027	3,080	
Sherman Island	22,533	114,940	
Shima_Tract	518,341	997,638	52
Shin Kee Tract	1,212	12,324	10
Simmons-Wheeler Island	113	252	45
SM-123	5,544	20,683	27

SM-124	167,145	469,547	36
SM-132	139	263	53
SM-133	0	0	0
SM-134	0	0	0
SM-198	1,125	4,521	25
SM-199	722	1,620	45
SM-202	127	266	48
SM-39	3,889	16,638	23
SM-40	428	1,556	28
SM-41	500	3,851	13
SM-42	275	1,753	
SM-43	113	252	45
SM-44	1,452	5,701	25
SM-46	132	474	28
SM-47	0	0	
			0
SM-48	28,566	56,869	50
SM-49	25,588	53,690	48
SM-52	1,379	4,585	30
SM-53	30	70	43
SM-54	52,467	127,632	41
SM-55	1,110	5,213	21
SM-56	776	3,759	21
SM-57	3,666	15,680	23
SM-58	211	768	28
SM-59	513	1,789	29
SM-60	9,663	24,170	40
SM-84	5,090	15,093	34
SM-85-Grizzly_Island	3,293	16,932	19
	490,073		
Smith_Tract		1,401,180	35 5
Stark_Tract	282	5,199	

Staten Island	4,655	20,596	23
Stewart Tract	17,160		
Sutter Island	15,774	26,333	
Terminous Tract 1	6,676	29,423	
Terminous Tract 2	43,965	64,037	
Terminous Tract 3	678	940	
Twitchell Island	9,038	14,493	
Tyler Island 2	27,458	92,866	
Union Island 1	51,702	148,730	
Union Island 2	23	574	
Union Island 3	545	6,773	
Union Island 4	135	686	
Upper Roberts Island	13,433	63,146	
Van Sickle Island	33,428	100,810	
Veale Tract 1	7,575	21,936	
Veale_Tract 1 Veale_Tract 2	1,864	6,038	
Venice Island	3,705	13,308	
Victoria Island	37,778		
Walnut Grove		57,078	
Walthal Tract	50,858	55,332 52,374	
	24,249	52,374	
Water Body Water Canal	0	0	
		224	
Water Zone 1	258,557	475,021	54
Water Zone 2	523,491	1,408,541	. 37
Water Zone 3	59,967	154,321	
Water Zone 4	62,140	173,431	
Water Zone 5	53,732	119,745	
Webb_Tract	182	416	
West Sacramento North	2,929,836	3,428,905	
West Sacramento South 1	698,131	726,118	
West Sacramento South 2	279	1,547	
Woodward_Island	11,308	124,671	9
Wright-Elmwood_Tract	2,006	16,429	
Yolo_Bypass	36,506	134,731	27
Zone 120	16,735	52,028	
Zone 122	199	188	106
Zone 14	0	432	0
Zone 148	9,386	16,027	59
Zone 155	30	298	10
Zone 158 (Smith Tract_2)	97,637	385,752	25
Zone 160	6,009	15,763	
Zone 162	1,988	4,606	
Zone 171	6,402	29,277	22
Zone 185	232,683	774,746	30
Zone 186	0	3,283	0
Zone 197	19,470	34,736	56
Zone 206	87,243	214,621	41
Zone 207	1,883	7,360	26
Zone 214	0	269	0
Zone 216	370	701	53
Zone 31	255	645	40
Zone 33	97	245	40
Zone 36	2,095	9,414	22
Zone 37	375,120	1,512,403	25
Zone 38	32,402	105,142	31
Zone 64	3,139	10,298	30
Zone 65	96	350	28
Zone 69	233	847	28
Zone 74	10,153	48,958	
Zone 74 Zone 75	10,133		21 43
Zone 73 Zone 77		25,672	
LONG II	2,816	11,838	24

Zone 78	9,959	29,185	34
Zone 79	2,255	9,241	24
Zone 80	2,466	10,969	22
Zone 81	2,404	9,839	24
Zone 82	603	7,124	8
Zone 90	12,954	69,073	19
TOTAL (\$1,000)	28,228,892	56,267,733	50

Table 7 - 3a: Estimate of Asset Cost Damaged by Island- (MHHW) - Scour- Current

1	2	3	4	5	6	7	8	9	10	11	12	13
Island Name	Asset Type	Structure Type	Inventory Unit	GIS Quantity (current)	Percent Damage	Total Asset Value	MHHW Inundation Repair Costs (\$1,000)	Differential Repair Costs (\$1,000)	MHHW Inundation Repair Costs - By Island (\$1,000)	Differential Costs for Point Assets - By Island (\$1,000)	1,000ft Increment Costs for Point Assets - By Island (\$1,000)	Differential Costs for Linear Assets By Island (\$1,000
Bacon_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	31,752	25.0	6,350	1,588	4,763				
	gas_oil_wells	Point	Count	5	0.0							
	NG_Pipelines	Linear	Length (ft)	12,115	0.0		0	3,695				
5-4-11-1-1	Residential - Institional Dormitory	Point	Count	3	100.0	0,0,0	9,948		11,536	0	0	8,45
Bethel_Island	Boatlaunch	Point	Count	3	0.0		0		4			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	94,725	25.0	18,945	4,736	14,209	1			
	gas_oil_wells	Point	Count	16	0.0			-	4			
	gas_oil-production_fields	Point	Area (acres	478	0.0		-					
	NG_Pipelines NG_wells	Linear Point	Length (ft)	10,446	0.0		0	1,985	4	i		
	Residential - Manuf. Housing	Point	Length (ft) Count	220	100.0		7,520		-			
	Residential - Single Family Dwelling	Point	Count	510	48.6	93,141	7,520 45,290	47,851	1	1		
	utilities	Point	Count	1	0.0	93,141	45,290	47,651	1			
	water trans	Point	Count	2	0.0	-	-		57,546	48,151	1,057	16,19
Bishop_Tract	Boatlaunch	Point	Count	1	0.0	100	0	100	57,540	70,131	1,037	10,19
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	27,037	25.0	5,407	1,352	4,055				
	gas oil wells	Point	Count	1	0.0	0,107	- 1,002	1,000	1			
	gas_oil-production_fields	Point	Area (acres	83	0.0	ō			1			
	Residential - Single Family Dwelling	Point	Count	5	39.1	923	361	562	1			
	Transmission Line	Linear	Length (ft)	13,404	0.0	3,300	-	3,300	1,713	662	21	7,35
Bixler_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	150	25.0	30	7	22				
	gas_oil_wells	Point	Count	3	0.0	0		-	1			
	gas_oil-production_fields	Point	Area (acres	80	0.0	0	-	-				
	Residential - Single Family Dwelling	Point	Count	2	20,8	402	83	319	91	319	50	2
Bouldin_Island	Commercial - Professional and Technic		Count	1	100.0	3,585	3,585	0				
	Commercial - Retail Trade	Point	Count	1	100.0	561	` 561	. 0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,505	25.0	497	124	373	Į l			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	42,545	25.0	8,509	2,127	6,382	j			
	gas_oil_wells		Count	14	0.0	. 0		•	l I			
	hwy_HAZUS_SDURS utilities	Linear Point	Length (ft) Count	18,408	25.0 0.0	6,075	1,519	4,556			_	
Brack Tract	Delta Roads PBSJ Minor Roads			6 200		4 600			7,916	0	0	11,31
Diaon_Hatt	gas oil wells	Linear Point	Length (ft) Count	6,330	25.0 0.0	1,266	316	949	1			
	NG Pipelines	Linear	Length (ft)	3,223	0.0	741	- 0	741	i			
	Residential - Manuf. Housing		Count	3,223	100.0	127	127	/41	{			
·	Residential - Single Family Dwelling	Point	Count	2	100.0	200	200		643	n	م	1,69
Bradford_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	39,651	25.0	7,930	1,983	5,948		U	U	1,09
-	gas oil wells	Point	Count	11	0.0	7,350	1,905	0,340	1			
	gas_oil-production_fields	Point	Area (acres	642	0.0	ŏ	-	-	1			
	NG_Pipelines	Linear	Length (ft)	3,733	0.0	1,082	0	1,082				
	NG wells	Point	Count	5	0.0	0	-	.,002	1			
	Residential - Manuf. Housing	Point	Count	6	100.0	197	197	-	1 1			
		Point	Count	18	100.0	3,200	3,200	. 0	5,380	0	o	7,03
Brannan-Andrus Island		Point	Count	1	0.0	0	-	-				
		Point	Count	. 8	100.0	800	800	0				
	Commercial - Entertainment and Recre		Count	1	100.0	1,364	1,364	0	1			
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	22,069	25.0	7,283	1,821	5,462				
		Linear	Length (ft)	187,578	25.0	37,516	9,379	28,137			İ	
	gas_oil_wells	Point	Count	88	0.0	0	-	-				

									_	_		
	gas_oil-production_fields	Point	Area (acres	3,872	0.0	0		-				
	hc_hospital	Point	Count		100.0	0						
	hwy_Bridge_HAZUS_SDURS	Point	Count	2 2	0.0	4,000	•	4,000				
	hwy_HAZUS_SDURS	Linear	Length (ft)	34,137	25.0	11,265	2,816	8,449				
	NG_Pipelines	Linear	Length (ft)	35,601 48	0.0 0.0	8,366		8,366				
	NG_wells	Point Point	Count	234	100.0	8,128	8,128					· · ·
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19		Count	234	100.0	365	365	,				
	Residential - Single Family Dwelling	Point	Count	250	100.0	36.053	36,053	0				
	Solid Waste Facilities	Point	Count	2,00	25.0	30,000	30,000	-				
	Transmission Line	Linear	Length (ft)	2,649	0.0	652		652				
	water trans	Point	Count	2,049	0.0	002		002	60,726	4.000	128	51,066
Browns_Island	Hazmat_HAZUS_SDURS	Point	Count	2	0.0	<u> </u>			00,720	7,000	120	
	Delta Roads PBSJ Minor Roads	Linear		6,380	25.0	1,276	319	957	<u> </u>			
Byron_Tract 1	hwy HAZUS SDURS	Linear	Length (ft) Length (ft)	5,458	25.0	1,801	450	1.351				
	Residential - Manuf. Housing	Point	Count	5,456	11.0	37	430	33				
	Residential - Maridi. Housing Residential - Single Family Dwelling	Point	Count	<u>'</u>	48.6	738	359	379				
	Transmission Line	Linear		10,358	0.0	3,335	309	3,335	1,132	412	33	5,643
Byron Tract 2	Bridges not in HAZUS	Point	Length (ft) Count	10,000	0.0	4,000	-	4,000	1,102	712	33	0,040
Dyron_ridot 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	12,532	25.0	2,506	627	1,880				
	Residential - Manuf. Housing	Point	Count	12,332	100.0	2,506	63	1,000				
	Residential - Single Family Dwelling	Point	Count	16	32.6	3,298	1,076	2,222				
	Transmission Line	Linear	Length (ft)	25,246	0.0	8,128	1,076	8,128	1,766	6,222	49	10,008
Cache_Haas_Tract 1	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	58,538	25.0	11,708	2,927	8,781	1,, 00	U,LLL	40	.5,000
Cache_naas_nact i	gas oil wells	Point	Count	13	0.0	11,700	2,021	0,701				
	gas oil-production fields	Point	Area (acres	669	0.0	<u>ŏ</u> l						
	NG Pipelines	Linear	Length (ft)	877	0.0	167	0	167				
	NG wells	Point	Count	1	0.0	' 'nl		107				
	Transmission Line	Linear	Length (ft)	10,876	0.0	3,502	-	3,502	2,927	0	0	12,449
Cache_Haas_Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,532	25.0	1,706	427	1,280	2,02.			74,774
Oddine_ridas_ridet z	gas oil wells	Point	Count	15	0.0	1,700		1,200				
	gas oil-production fields	Point	Area (acres	474	0.0	ő		-				
	NG wells	Point	Count	1	0.0	Ö						
	Residential - Manuf. Housing	Point	Count	1	100.0	17	17					
	Residential - Single Family Dwelling	Point	Count	4	25.8	776	200	576				
	Transmission Line	Linear	Length (ft)	567	0.0	183		183	643	576	100	1,462
Canal Ranch	Commercial - Professional and Technic		Count	1	22.0	726	160	566				
	Commercial - Retail Trade	Point	Count	1	16.0	477	76	401				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,555	25.0	911	228	683				
	gas oil wells	Point	Count	5	0.0	0	-	-				
	gas_oil-production_fields	Point	Area (acres	170	0.0	0		-				
	hwy Bridge HAZUS SDURS	Point	Count	1	0.0	2.000	0	2,000				
	NG_Pipelines	Linear	Length (ft)	1,065	0.0	202	0	202	464	2,967	207	886
Chipps_Island	gas_oil_wells	Point	Count	2	0.0	0	-	-	0	0	0	0
Clifton Court Forebay Water	Boatlaunch	Point	Count	1	0.0	100	0	100				
-	Residential - Single Family Dwelling	Point	Count	2	12.5	336	42	294				
	Transmission Line	Linear	Length (ft)	9,729	0.0	3,132	-	3,132	42	394	25	3,132
Coney_Island	Residential - Manuf. Housing	Point	Count	9	11.0	305	34	271				
	Residential - Single Family Dwelling	Point	Count	60	48.6	12,859	6,253	6,606	6,286	6,878	1,675	0
Deadhorse Island	gas oil wells	Point	Count	3	0.0	0		-			······································	
	gas_oil-production_fields	Point	Area (acres	199	0.0	0						
	NG Pipelines	Linear	Length (ft)	3,862	0.0	734	0	734				
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	45.5	6	3	3	İ			
	Residential - Single Family Dwelling	Point	Count	1	48.6	170	83	87	85	91	3	734
Decker_Island	NG Pipelines	Linear	Length (ft)	8,044	0.0	1,528	0		0	0	0	
Egbert Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	10,243	25.0	2,049	512	1,536			· · · · · · · · · · · · · · · · · · ·	.,,,,,
	gas oil wells	Point	Count	24	0.0	2,049		, ,,,,,,,	ŀ			
	gas_oil-production_fields	Point	Area (acres	688	0.0	ő			Į.			
	NG Pipelines	Linear	Length (ft)	3,937	0.0	945	0	945				
	NG wells	Point	Count	2,337	0.0	0						
	Residential - Single Family Dwelling	Point	Count	3	32,6	564	184	380				
	Transmission Line	Linear	Length (ft)	2,861	0.0	921		921	696	380	8	3,402
				,,		1		·' L			<u>_</u>	3,102

Emnire Tract	Boatlaunch	Point	Count	4	100.0	100	400		1.	1		
Empire_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	36,993	25.0	7,399	100 1,850	5,549	 			
	gas oil wells	Point	Count	30,393	0.0	7,399	1,000	5,549				
	Residential - Manuf. Housing	Point	Count	- 3	100.0	127	127					
	Residential - Single Family Dwelling	Point	Count	Ž	100.0	200	200	0	2,277	٥	(5,549
Fabian_Tract	Boatlaunch	Point	Count	1	0.0	100	200	100	-,			0,010
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	34,239	25.0	6,848	1,712	5,136				
	gas oil wells	Point	Count	2	0.0	0,0.0	****	- 0,100				
	NG Pipelines	Linear	Length (ft)	1,817	0.0	345	0	345				
	Residential - Manuf. Housing	Point	Count	5	100.0	186	186	•		į		
	Residential - Single Family Dwelling	Point	Count	8	25.8	1,189	306	883				
	Transmission Line	Linear	Length (ft)	9,642	0.0	2,374		2,374	2,204	983	30	7,855
Fay Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	112	25.0	22	6	17	6	0	(17
Glanville_Tract	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	2,036	25.0	672	168	504				
_	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,455	25.0	491	123	368		ŀ		
	gas_oil_wells	Point	Count	6	0.0	0	-	-		1		
	gas_oil-production_fields	Point	Area (acres	85	0.0	0	-	-				
	Residential - Manuf. Housing	Point	Count	1	100.0	13	13	•				
	Residential - Multi Dwellings - 10 to 19		Count	1	25.5	6	2	4				
	Residential - Single Family Dwelling	Point	Count	1	25.8	197	51	146	356	151	34	872
Grand Island	Boatlaunch	Point	Count	1	0.0	100	0	100				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	3,301	25.0	1,089	272	817		1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	127,834	25.0	25,567	6,392	19,175		1		
	gas_oil_wells	Point	Count	34	0.0	0		<u> </u>		1		
	gas_oil-production_fields	Point	Area (acres	760	0.0	0	-					
	hwy Bridge HAZUS SDURS	Point	Count	2	0.0	4,000	. 0	4,000		ı		
	hwy_HAZUS_SDURS	Linear	Length (ft)	65,548	25.0	21,631	5,408	16,223		l		
	Industrial - Light	Point	Count	2	48.0	4,440	2,131	2,309	·	l		
	NG_Pipelines	Linear	Length (ft)	11,501	0.0	2,185	0	2,185		l		
	NG_wells Residential - Manuf. Housing	Point	Count	22	0.0 100.0	768	768	-				
	Residential - Multi Dwellings - 10 to 19	Point	Count Count		100.0	1,472	1,472			I		
	Residential - Multi Dwellings - 10 to 19		Count	1	100.0	391	391	0		1		
	Residential - Single Family Dwelling	Point	Count	217	100.0	38,543	38,543	<u>0</u>		1		
	Transmission Line	Linear	Length (ft)	13,185	0.0	3,246	30,043	3,246		1		
	US Cell Towers	Point	Count	10,100	0.0	250		250	55,377	6,659	459	41,647
Hastings_Tract 1	Commercial - Retail Trade	Point	Count	1	100.0	3	3	200	00,011	0,000	400	7 71,047
	gas oil-production fields	Point	Area (acres	45	0.0	0			3	٥	c	1
Hastings_Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	10,299	25.0	2,060	515	1,545				
3 - <u>-</u>	gas oil wells	Point	Count	27	0,0	0		1,040		- 1		
	gas_oil-production_fields	Point	Area (acres	359	0.0	ő	-			- 1		
	NG wells	Point	Count	3	0.0	ō		_		1		
	Residential - Single Family Dwelling	Point	Count	6	25.8	1.021	263	758		ı		
	Transmission Line	Linear	Length (ft)	4,432	0.0	1,427		1,427	778	758	19	2,972
Holland_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	41,410	25.0	8,282	2,070	6,211				
	gas_oil_wells	Point	Count	8	0.0	0	-	-				
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000				
	Residential - Manuf. Housing	Point	Count	2	100.0	64	64	-		ľ		
	Residential - Single Family Dwelling	Point	Count	5	100.0	1,054	1,054	Ō	3,188	2,000	42	6,211
Honker_Bay_Club	gas_oil-production_fields	Point	Area (acres	46	0.0	0	-	•				
	NG_Pipelines	Linear	Length (ft)	4,395	0.0	835	0	835	i			
	Petroleum Pipelines	Linear	Length (ft)	4,793	0.0	4,793	0	4,793	i			
	Residential - Single Family Dwelling	Point	Count	1	20.8	176	37	139	37	139	12	5,628
Hotchkiss_Tract 1	Boatlaunch	Point	Count	1	100.0	100	100	Ò				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	34,037	25.0	6,807	1,702	5,106		1		
	gas_oil_wells	Point	Count	14	0.0	0	-	-		1		
	gas_oil-production_fields	Point	Area (acres	46	0.0	0	-	-	l	ŀ		
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000	İ	ı		
	NG_Pipelines	Linear	Length (ft)	12,157	0.0	2,310	0	2,310	j	ı		
	NG_wells	Point	Count	2	0.0	0	-	-	I	I		
	Residential - Manuf. Housing	Point	Count	69	100.0	2,448	2,448		1	ł		
	Residential - Single Family Dwelling	Point	Count	220	37.0	39,991	14,797	25,194	1			L

	Transmission Line	Linear	Length (ft)	14,067	0.0	4,529	- [4,529	19,047	27,194	530	11,94
Hotchkiss_Tract 2	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	3,345	25.0	669	167	502				
	gas_oil_wells	Point	Count	2	0.0	0	-	-				
	gas_oil-production_fields	Point ,	Area (acres	615	0.0	0	-	-				
	NG_Pipelines		Length (ft)	2,370	0.0	450	0	450	167	0	C	95
Jersey_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	30,773	25.0	6,155	1,539	4,616				
	gas_oil_wells		Count	12	0.0	0	-	-				
	gas_oil-production_fields	Point	Area (acres	536	0.0	0	-	-			ı	
	NG_Pipelines	Linear	Length (ft)	5,421	0.0	3,388	0	3,388	ŀ		į .	
	NG_wells	Point	Count	3	0.0	0	-	-				
	Residential - Manuf. Housing	Point	Count	1,	100.0	35	35	-	1		ı	
	Residential - Single Family Dwelling	Point	Count	3	100.0	579	579	0				
	Solid_Waste_Facilities	Point	Count	1	25.0	0	-	-			ı	
	Transmission Line	Linear	Length (ft)	15,918	0.0	5,125	-1	5,125	2,153	0	0	13,12
Jones_Tract-Upper_and_Lower	Bridges_not_in_HAZUS	Point	Count	1	0.0	1,000	0	1,000				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	81,999	25.0	16,400	4,100	12,300	1			
	gas_oil_wells	Point	Count	12	0.0	´0.	-	-	1		1	
	gas_oil-production_fields	Point /	Area (acres	106	0.0	0		-	j		1	
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	5,018	0.0	1,054	0	11,054	1		1	
	mokelumne_aqueduct_pipe		Length (ft)	14,985	0.0	74,924	5,694	0	į		1	
	NG_Pipelines		Length (ft)	15,032	0.0	24,202	0	24,202	ŀ		1	
	NG_wells		Count	1	0.0	- 0	-	+	j		1	
	rail_1000_nodes		Length (ft)	1	0.0	39	. 0	39	į		1	I
	Rail_HAZUS_SDURS		Length (ft)	5,678	100.0	1,618	8,000	0			1	l
	Residential - Manuf. Housing	Point (Count	3	100.0	76	76	-	1		ĺ	
	Residential - Single Family Dwelling	Point (Count	4	100.0	483	483	0	18,353	1,000	20	37,59
King_island	Boatlaunch	Point	Count	1	100.0	100	100	0	1			
	Commercial - Entertainment and Recre	Point (Count	1	45.0	463	208	255	1		i	
	Commercial - Retail Trade	Point (Count	1	100.0	3,543	3,543	0	1		i	
	Delta_Roads_PBSJ_Minor_Roads	Linear I	Length (ft)	33,844	25.0	6,769	1,692	5,077	1		1	
	gas_oil_wells	Point (Count	6	0.0	0		-	1		ı	
	gas_oil-production_fields	Point /	Area (acres	151	0.0	0	-	-	i		ı	
	hwy_Bridge_HAZUS_SDURS	Point (Count	2	0.0	4,000	0	4,000	1		ı	
	NG_wells		Count	2	0.0	0	-	•	- 1		ı	
	Residential - Manuf. Housing		Count	42	100.0	1,404	1,404	-	i		1	
	Residential - Single Family Dwelling		Count	17	100.0	2,209	2,209	0			1	
			Count	1	0.0	Ó	•	-]	9,157	4,255	84	5,07
Libby_McNeil_Tract 1	Communication_HAZUS_SDURS	Point (Count	1	0.0	118	0	118				
	Delta_Roads_PBSJ_Major_Roads	Linear I	Linear (ft)	5,110	25.0	1,686	422	1,265			l	
	Delta_Roads_PBSJ_Minor_Roads	Linear I	Length (ft)	10,178	25.0	2,036	509	1,527			i	
	gas_oil_wells		Count	7	0.0	0	-	- 1			i	
	gas_oil-production_fields		Area (acres	143	0.0	0	•				l	
	Residential - Manuf. Housing		Count	2	100.0	81	81	-	İ		l	
	Residential - Single Family Dwelling		Count	41	25.8	7,402	1,906	5,496	2,917	5,614	153	2,79
Libby_McNeil_Tract 2	Boatlaunch		Count	1	0.0	100	0	100				
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	345	25.0	69	17	52	į		l	
	gas_oil-production_fields		Area (acres	42	0.0	0	-	-	İ		I	
			Count	4	12.5	689	86	603	103	703	14	5
Liberte Island	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	11,521	25.0	2,304	576	1,728				
	gas_oil_wells		Count	17	0.0	0	-	-	1		1	
			Area (acres	470	0.0	0	-		- 1	1	1	
			Count	1	0.0	2,000	O	2,000			1	
			Length (ft)	21,289	0.0	4,045	0	4,045	576	2,000	147	5,77
.incoln_Village_Tract	Residential - Multi Dwellings - 10 to 19		Count	1	100.0	10	10	0				
	Residential - Multi Dwellings - 50+ units		Count	1	100.0	8	8	0	1		1	
	Residential - Single Family Dwelling	Point (Coùnt	1	12.5	151	19	132	37	132	5	
_isbon_District	Delta_Roads_PBSJ_Minor_Roads	Linear l	Length (ft)	2,276	25.0	455	114	341			1	T
	Rail_HAZUS_SDURS		Length (ft)	2,360	25.0	673	168	504	j		l .	
	Residential - Multi Dwellings - 10 to 19		Count	1	25.5	5	1	4	į.		l	
			Count	1	25.8	148	38	110	321	114	3	84
ittle Holland Tract	gas_oil_wells	Point (Count	2	0.0	0						
	gas_oil-production_fields		Area (acres	88	0.0	o			0	n	0	

Little Eghert⊓ Tract	Delta Roads PRS I Minor Poads	Linear	Length /ft\	8,466	25.0	1,693	423	1 270	1	1		
Little_Egbert□_Tract	Delta_Roads_PBSJ_Minor_Roads gas_oil_wells	Linear Point	Length (ft) Count	8,466	25.0 0.0	1,093	423	1,270	1			
	gas_oii_weiis gas_oil-production_fields	Point	Area (acres	412	0.0	0			1			
	NG Pipelines	Linear	Length (ft)	5,709	0.0	1,370	0	1,370				<u> </u>
	Residential - Single Family Dwelling	Point	Count	3	48.6	568	276	292	700	292	6	2,640
Lower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,657	25.0	931	233	698				
	gas oil wells	Point	Count	1	0.0	0		-	1			
	Residential - Manuf. Housing	Point	Count	1	11.0	20	2	18				
	Residential - Single Family Dwelling	Point	Count	1	37.0	126	47	79	282	97	2	698
Mandeville_Island	Delta_Roads_PB\$J_Minor_Roads	Linear	Length (ft)	26,062	25.0	5,212	1,303	3,909	T T			1
_	gas_oil_wells	Point	Count	4	0.0	0	-	-	1,303	0	0	3,909
McCormack_Williamson_Tract	Communication_HAZUS_SDURS	Point	Count	2	0.0	236	0	236				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,930	25.0	1,986	496	1,489	ŀ			
	gas_oil_wells	Point	Count	16	0.0	0	-					
	gas_oil-production_fields	Point	Area (acres	802	0.0	0	•	-				
	NG_Pipelines	Linear	Length (ft)	4,699	0.0	893	0	893	496	236	46	2,382
McDonald_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	52,770	25.0	10,554	2,639	7,916		·		
	gas_oil_wells	Point	Count	48	0.0	0		-				
	gas_oil-production_fields	Point	Area (acres	602	0.0	0			j			
	NG_Pipelines	Linear	Length (ft)	5,235	0.0	1,597	0	1,597	,			
	Residential - Institional Dormitory	Point	Count	200011	47.0	4,756	2,235	2,521	4,874	2,521	39	9,512
Medford_island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	28,314	25.0	5,663	1,416	4,247	0.470			
Morritt Ioland	Residential - Institutional Dormitory	Point	Count		100.0	1,756	1,756	0	3,172	0	0	4,247
Merritt Island	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear	Linear (ft)	2,454 30.095	25.0 25.0	810 6.019	202	607				
		Linear Point	Length (ft)	30,095	0.0	6,019	1,505	4,514				
	gas_oil_wells gas_oil-production_fields	Point	Count Area (acres	44	0.0	. 0	-					
	Residential - Manuf. Housing	Point	Count	77	100.0	63	63					
	Residential - Multi Dwellings - 10 to 19		Count		25.5	43	11	32				
	Residential - Single Family Dwelling	Point	Count	27	25.8	4,740	1,221	3,519	3,002	3,551	87	5,122
Middle_Roberts_Island	Boatlaunch	Point	Count	3	100.0	300	300	0,0.0	0,002	0,001		O, ILL
	Commercial - Personal and Repair Serv	Point	Count	1	32.0	615	197	418	1			
	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	11.881	25.0	3,921	980	2,940	ı			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	107,709	25.0	21,542	5,385	16,156	1			
	gas_oil_wells	Point	Count	22	0.0	0	-	-	l			
	gas_oil-production_fields	Point	Area (acres	619	0.0	0	-	-	1			
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	8,230	0.0	1,728	0	11,728				
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000				
	hwy_HAZUS_SDURS	Linear	Length (ft)	18,586	25.0	6,133	1,533	4,600				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	22,309	0.0	111,543	0	111,543	1			
	NG_Pipelines	Linear	Length (ft)	13,010	0.0	2,472	0	2,472				
	NG_wells	Point	Count	5	0.0	0			1			
	Petroleum Pipelines	Linear	Length (ft)	3,641	0.0	3,641	0	3,641	1			
_	Rail HAZUS SDURS	Linear	Length (ft)	7,982	25.0	2,275	569	1,706	- 1			<u></u>
	Residential - Manuf. Housing	Point	Count	18 51	44.0 39.1	615	271	344	- 1			<u> </u>
	Residential - Single Family Dwelling Solid Waste Facilities	Point Point	Count Count	57	0.0	7,599	2,973	4,626				
	Transmission Line	Linéar	Length (ft)	40,597	0.0	9,995		9,995	12,208	7,388	443	154,782
Netherlands 2	air trans	Point	Count	40,007	0.0	3,330		9,333	12,200	,,300	443	154,702
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	2.040	25.0	673	168	505	j			<u> </u>
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	116,483	25.0	23,297	5,824	17,472	l			<u> </u>
	gas oil wells	Point	Count	110,400	0.0	0	3,327	11,712	i			<u> </u>
	gas_oil-production_fields	Point	Area (acres	24	0.0	Ö			l			
	hwy_Bridge_HAZÚS_SDURS	Point	Count	1	0.0	2,000	.0	2,000	ı			
	hwy_HAZUS_SDURS	Linear	Length (ft)	6,756	0.0	2,229	0	2,229	ŀ			
	rail_1000_nodes	Linear	Length (ft)	1	0.0	0	- 1	-	ł	ľ		
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,050	25.0	584	146	438	1	1		
	Residential - Manuf. Housing	Point	Count	1	100.0	80	80	-	1	1		
	Residential - Multi Dwellings - 10 to 19		Count	1	25.5	72	18	54				
	Residential - Single Family Dwelling	Point	Count	36	25,8	6,418	1,653	4,765	7,890	6,819	262	20,645
		Dalas	Count	2	100.0	200	200	. 0				
New_Hope_Tract	Boatlaunch Delta Roads PBSJ Major Roads	Point Linear	Linear (ft)	2,043	25.0	674	169	506		ľ		

	In	1										
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	11,489	25.0	2,298	574	1,723				
	gas_oil_wells	Point	Count	20	0.0	0						
	gas_oil-production_fields	Point	Area (acres	647	0.0	0			ł			
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000				
	hwy_HAZUS_SDURS	Linear	Length (ft)	1,022	0.0	337	이	337				
	NG_Pipelines	Linear	Length (ft)	11,534	0.0	2,191	0	2,191				
	NG_wells	Point	Count	2	0.0	0						
	Residential - Manuf. Housing	Point	Count	28	100.0	985	985	-				
	Residential - Single Family Dwelling	Point	Count '	12	29,3	1,684	493	1,191	2,421	3,191	49	4,75
Orwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	12,924	25.0	2,585	646	1,939				
	gas_oil_wells	Point	Count	3	0.0	Ó						
	gas_pipeline_kinder_morgan_LS 9	Linear	Length (ft)	14,840	0.0	3,116	0	13,116				
	mokelumne aqueduct pipe	Linear	Length (ft)	40,546	0.0	202,729	15,407	0				
	NG Pipelines	Linear	Length (ft)	6,469	0.0	1,811	, 0,	1,811	1			I
	Residential - Manuf, Housing	Point	Count	1	100.0	22	22	1,011	i			
	Residential - Single Family Dwelling	Point	Count	81	46.6	20,688	9,646	11,042				
	Transmission Line	Linear	Length (ft)	8.083	0.0	2,602	3,040	2,602	25,721	11,042	170	9,46
Palm_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	24,442	25.0	4,888	1,222	3,666	20,721	11,042	170	9,40
<u>-</u>	gas oil wells	Point	Count	24,44Z	0.0	4,888	1,222	3,000				
	gas_oil-production fields	Point		100		- 0						
	NG Pipelines		Area (acres		0.0					l		
		Linear	Length (ft)	10,249	0.0	2,870	0	2,870	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	12,627	25.0	3,599	900	2,699	l			
	Residential - Manuf. Housing	Point	Count	1	100.0	'47	47	- '	1	- 1		
	Residential - Single Family Dwelling	Point	Count	. 9	100.0	1,976	1,976	0	i			
	Transmission Line	Linear	Length (ft)	5,169	0.0	1,664		1,664	4,145	0	0	10,89
Peter Pocket	gas_oil_wells	Point	Count	3	0.0	0	- 1	-				
	gas_oil-production_fields	Point	Area (acres	406	0.0	0	-1	-				
	NG_wells	Pòint	Count *	2	0.0	0		-				
	Residential - Single Family Dwelling	Point	Count	1	16.4	209	34	175				
	Transmission Line	Linear	Length (ft)	864	0.0	278		278	34	175	1	27
Pico_Naglee_Tract	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	9.806	25.0	3,236	809	2,427			i	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,771	25.0	1,554	389	1,166				
	gas_oil_wells	Point	Count	2	0.0	1,004		1,100				
	NG Pipelines	Linear	Length (ft)	8,918	0.0	1,694	- 0	1,694	1	1		
	Residential - Manuf. Housing	Point	Count	0,910	44.0	1,094	26	34	i			
	Residential - Single Family Dwelling	Point'	Count	19	20.8		893					
	Transmission Line			1.083		4,302	893	3,409	l			
	utilities	Linear Point	Length (ft)	1,083	0.0	267		267				
N T			Count	- 1		Ö			2,117	3,443	441	5,55
Pierson_Tract	Communication_HAZUS_SDURS	Point	Count	3	100.0	354	354	0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	8,242	25.0	2,720	680	2,040	- 1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	48,597	25.0	9,719	2,430	7,290	- 1			
	Fire Stations HAZUS SDURS	Point	Count	1	0.0	708	0	708	i			
	gas_oil_wells	Point	Count	8	0.0		-		1			
	gas_oil-production_fields	Point	Area (acres	109	0.0	0		-	l	1		
	hwy_Bridge_HAZUS_SDURS	Point	Count	2	0.0	4,000	0	4,000	l			
	hwy_HAZUS_SDURS	Linear	Length (ft)	5,832	0.0	1,924	Ó	1,924	- 1	l		
	Residential - Manuf. Housing	Point	Count	5	100.0	202	202			į		
	Residential - Single Family Dwelling	Point	Count	54	39.1	7.642	2,990	4,652		l		<u> </u>
	Schools HAZUS SDURS	Point	Count	2	0.0	1,180	2,000	1,180	f	ĺ		<u> </u>
	Transmission Line	Linear	Length (ft)	2,764	0.0	680		680	6,656	10,540	92	11,93
Pittsburg	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	552	25.0	110	28	83	0,000	10,040	32	11,30
	NG Pipelines	Linear	Length (ft)	3,070	0.0	583	- 2 0	583	1	1		
	Petroleum Pipelines	Linear	Length (ft)	3,751	0.0		- V		1	1		
	Port HAZUS SDURS	Linear		3,731	0.0	3,751	<u>V</u>	3,751	i	1		
	rail 1000 nodes		Length (ft)			2,572	<u>.</u>	2,572	ļ	1		ļ
	Rail HAZUS SDURS	Linear	Length (ft)	40.005	0.0	0				Į		
	INSII MAZUO OUUKO	Linear	Length (ft)	10,235	25.0	2,917	729	2,188	J	j		
			Count	1	100.0	28	28		1	ŀ		7
	Residential - Manuf. Housing	Point		·, · · · · · · · · · · · · · ·								
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19	Point	Count	1	22.5	457	103	`354	1			
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19 Residential - Multi Dwellings - 50+ units	Point Point	Count Count	1	22.5	237	103 53	184				
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19 Residential - Multi Dwellings - 50+ units Residential - Single Family Dwelling	Point	Count	1 1 28								
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19 Residential - Multi Dwellings - 50+ units	Point Point	Count Count		22.5	237	53	184				

	10.1.		17 11 70 1				a=-1				
Prospect_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,398	25.0	1,080	270	810	1		
	gas_oil_wells	Point	Count	12	0.0	0			I		
	gas_oil-production_fields	Point	Area (acres	300	0.0	0					
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	15.5 20.8	447	0	754	200	255	
A.J., C. 1. C	Residential - Single Family Dwelling	Point	Count				93	354	363	355	9 8
Quimby_Island	Bridges not in HAZUS	Point	Count	1	0.0	1,000	0	1,000			
	gas_oil_wells	Point	Count	1	0.0 100.0	0 84	84			4 000	70
Dinder Treet	Residential - Single Family Dwelling	Point	Count (ft)	95.006				10.751	84	1,000	79
Rindge_Tract	Delta Roads PBSJ Minor Roads	Linear Point	Length (ft) Count	85,006	25.0 0.0	17,001	4,250	12,751	1		
	gas_oil_wells NG wells	Point		4	0.0	0					
	Residential - Manuf. Housing	Point	Count Count		100.0	83	83				
	Residential - Manur. Housing Residential - Single Family Dwelling	Point	Count		100.0	534	534				
	US Cell Towers	Point	Count	1	0.0	250	334	250	4,867	250	4 12.7
Rio_Blanco_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,927	25.0	585	146	439	4,007	2.00	7 12,7
(IO_DIAIICO_TTACE	gas oil wells	Point	Count	2,321	0.0	0	140	433			
	hwy_Bridge_HAZUS_SDURS	Point	Count	- 1	0.0	2,000		2,000			
	hwy HAZUS SDURS	Linear	Length (ft)	495	25.0	163	41	123	j		
	Transmission Line	Linear	Length (ft)	6,826	0.0	1,681	- 7'	1,681	187	2,000	149 2,2
Roberts Island	Boatlaunch	Point	Count	1	0.0	100	0	100	107	100	739
Rough and Ready Island	air trans	Point	Count	1	0.0	100		,00		,00	700
.vogunu_reauy_isidiu	Commercial - Entertainment and Recre	Point	Count		16.0	504	81	423	ļ	İ	
	Commercial - Personal and Repair Sen		Count		19.0	938	178	760			
	Commercial - Wholesale Trade	Point	Count		16.0	4,608	737	3,871	ļ		
	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	4,690	25.0	1,548	387	1,161		l	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	45,755	25.0	9,151	2,288	6,863	l		-
	gas oil wells	Point	Count	10,700	0.0	3,131	2,200	0,000	l		
	Government - General Services	Point	Count	10	14.0	11,669	1,634	10,035	ł		***************************************
	Hazmat HAZUS SDURS	Point	Count	3	0.0	71,000		10,000			
	Industrial - Heavy	Point	Count	1	22.0	1,253	276	977	l	l	
	Petroleum Pipelines	Linear	Length (ft)	7,384	0.0	7,384	·0	7,384			
	rail 1000 nodes	Linear	Length (ft)	5	0.0	0		.,,			
	Rail HAZUS SDURS	Linear	Length (ft)	20,357	25.0	5,802	1,450	4,351			
	Residential - Manuf. Housing	Point	Count	7	100.0	231	231		1	l l	
	Residential - Single Family Dwelling	Point	Count	11	32.6	1,477	482	995	7,744	17,062	14,808 19,7
Ryer Island	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,851	25.0	611	153	458			
-	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	44,230	25.0	8,846	2,212	6,635	1	ľ	
	gas_oil_wells	Point	Count	10	0.0	0	-	-	1		
	gas_oil-production_fields	Point	Area (acres	46	0.0	0	-	-	1		
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	.0	2,000		Ĭ	
	hwy_HAZUS_SDURS	Linear	Length (ft)	44,661	0.0	14,738	0	14,738	1	l	
	Residential - Manuf. Housing	Point	Count	2	100.0	96	96	-	1	1	
	Residential - Single Family Dwelling	Point	Count	23	100.0	4,384	4,384	, 0	6,844	2,000	27 21,8
Sargent_Barnhart_Tract 2	air_trans	Point	Count	1	0.0	0	-	-			
_	Commercial - Medical Office Clinic	Point	Count	1	17.0	774	132	642	1	1	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	92,847	25.0	18,569	4,642	13,927	1	1	
	gas_pipeline_kinder_morgan_LS_9	Linéar	Length (ft)	5,566	0.0	1,169	0	11,169	1	1	
	hc_ambulatory	Point	Count	1	2.0	Ó		-	- 1	1	
	mokelumne_aqueduct_pipe	Linear	Length (ft)	16,471	0.0	82,357	0	82,357	- 1	1	
	Petroleum Pipelines	Linear	Length (ft)	6	0.0	6	0	6	l	1	
	Residential - Manuf. Housing	Point *	Count	6	100.0	399	399		l		
	Residential - Multi Dwellings - 10 to 19		Count	1	43.0	638	274	364	j	l	
	Residential - Multi Dwellings - 50+ units		Count	1	43.0	9,177	3,946	5,231	l	i	
	Residential - Single Family Dwelling	Point	Count	1,044	100.0	235,436	235,436	0	l	l	
	Schools_HAZUS_SDURS	Point	Count	1	11.0	590	65	525	İ	İ	
	substation_ca	Point	Count	1]	25.0	1,000	250	750	1	l	
	Transmission Line	Linear	Length (ft)	7,749	0.0	1,908	-	1,908	245,144	7,512	205 99,3
argent_Barnhart_Tract 3	Commercial - Entertainment and Recre		Count	4	1.0	3,230	32	3,198			
	Commercial - Personal and Repair Serv		Count	1	0.0	493	0	493	1	İ	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	1,225	0.0	245	Ó	245	1	ł	
	Residential - Multi Dwellings - 10 to 19		Count	1	13.5	50	7	43	1	1	
	Residential - Multi Dwellings - 50+ units		Count		13.5	181	24	157			

	Residential - Single Family Dwelling	Point	Count	23	12.5	4,686	586	4,100	649 [7,991	82	
Schafter-Pintail Tract	Delta Roads_PBSJ_Minor_Roads	Linear	Length (ft)	12,297	25.0	2,459	615	1,844		7,001	- 02	
Condition a manual article	gas oil wells	Point	Count	1	0.0	2,400		1,044	•			
	Residential - Single Family Dwelling	Point	Count	1	37.0	309	114	195	729	195	22	
Sherman Island	Boatlaunch	Point	Count	3	0.0	300	0	300			· · · · · · · · · · · · · · · · · · ·	
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,521	25.0	502	125	376				
		Linear	Length (ft)	69,133	25.0	13,827	3,457	10,370	1			
	gas_oil_wells	Point	Count	31	0.0	0	- 1	-	i i			
	gas oil-production fields	Point	Area (acres	530	0.0	0	-	-	i i	i		
	hwy_HAZUS_SDURS	Linear	Length (ft)	19,828	25.0	6,543	1,636	4,907	į į			
	NG_Pipelines	Linear	Length (ft)	65,495	0.0	21,613	0	21,613				
	NG_wells	Point	Count	3	0.0	. 0		-				
	Residential - Manuf. Housing	Point	Count	26	100.0	887	887		ŀ			
		Point	Count	1	100.0 100.0	42 3.037	3,037	0	ŀ	i		
	Residential - Single Family Dwelling Transmission Line	Point	Count	21 21,392	0.0	3,037 6,887	3,037	6 997	0.484	200	4.	
Shima Tract	Delta Roads PBSJ Minor Roads	Linear Linear	Length (ft)	964	25.0	193	48	6,887 145	9,184	300	16	
Jimia_Hatt	Transmission Line	Linear Linear	Length (ft)	17,639	25.0	4,343	40	4,343	48	n	₁	
Shin_Kee_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	1,484	25.0	297	74	223	40			
Omi_nee_Hatt	gas oil wells	Point	Count	1,404	0.0	297	- '4	- 223	ļ		<u> </u>	
	Transmission Line	Linear	Length (ft)	2,073	0.0	510		510	74	٥	۰ ا	
Simmons-Wheeler_Island		Point	Count	2,070	20.8	140	29	111	29	111	7	
SM-123		Linear	Length (ft)	6,122	25.0	1,224	306	918				
		Point	Count	1	0.0	2,000	000	2,000	ļ			
	Petroleum Pipelines	Linear	Length (ft)	6	0.0	6	Ö	6				
		Point	Count	1	12.5	119	15	104				
	Transmission Line	Linear	Length (ft)	312	0.0	77	-	77	321	2,104	95	
SM-124	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	724	25.0	239	60	179				
		Linear	Length (ft)	9,144	25.0	1,829	457	1,372		i		
	gas_oil_wells	Point	Count	1	0.0	0	-					
		Point	Count	<u>'</u>	7.0	711	50	661				
		Linear	Length (ft)	1,966	0.0	373	0	373				
	Petroleum Pipelines	Linear	Length (ft)	2,637	0.0	2,637	0	2,637	1			
		Linear	Length (ft)	1	0.0	0				j		
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,057	0.0	586	0	586				
		Point Point	Count	4	11.0 13.5	51 238	6	45 206				
	Residential - Multi Dwellings - 10 to 19		Count		13.5	327	32 44	283			ļ	
		Point	Count	135	12.5	23,831	2,979	20,852				
	Sewage Treatment	Point	Count	133	0.0	175,000	2,515	26,250	1		 	
	Transmission Line	Linear	Length (ft)	3,814	0.0	939		939	3,627	48,297	1,334	
SM-132		Point	Count	1	0.0	0			0,027	40,207	1,004	
		Point	Count		37.0	176	65	111	65	111	220	
SM-133		Point	Count	9	0.0	0						
		Point	Area (acres	203	0.0	- 8			o	٥	۰	
SM-134		Point	Count	1	0.0	ol			- -			
	gas_oil-production_fields	Point	Area (acres	1	0.0	ő		· -	o	ol	۰,	
SM-198		Linear	Length (ft)	662	25.0	132	33	99	<u> </u>			
	gas_oil_wells	Point	Count	3	0.0	0	-	-	1	ł		
	NG_Pipelines	Linear	Length (ft)	4,303	0.0	818	0	818	1	l		
		Linear	Length (ft)	5,048	0.0	5,048	0	5,048	1	1		
	Rail HAZUS SDURS	Linear	Length (ft)	422	25.0	120	30	90	I			
		Point	Count	1	38.5	15	6	9	l	1		
		Point	Count	4	37.0	630	233	397	302	406	267	
SM-199	Communication_HAZUS_SDURS	Point	Count	1	49.0	118	58	60				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,663	25.0	533	133	400	I	l		
		Point	Count	1	32.0	10	3	7				
CM 000		Point	Count	- 2	32.6	440	144	296	338	363	9	
SM-202 SM-39	Residential - Single Family Dwelling Delta_Roads_PBSJ_Minor_Roads	Point	Count	1	20.8	165	34	131	34	131	12	
		Linear	Length (ft)	7,276	25.0	1,455	364	1,091				

	Date David DROLLES David	In	10 10' 200	44.400	05.01	0.000						
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	11,489	25.0	2,298	574	1,723				
	gas_oil_wells gas_oil-production_fields	Point	Count	20	0.0	0			l l			
	hwy Bridge HAZUS SDURS	Point Point	Area (acres Count	647	0.0	2,000			İ			
	hwy HAZUS SDURS			1,022	0.0	337	<u>\</u>	2,000				
	NG Pipelines	Linear	Length (ft)	11,534	0.0		<u>-</u>	337				· · · · · · · · · · · · · · · · · · ·
	NG wells	Linear Point	Length (ft)	11,534		2,191	· · · · · · · · · · · · · · · · · · ·	2,191		- 1		
	Residential - Manuf. Housing	Point	Count		0.0 100.0	985						
		Point	Count	28 12	29.3	1,684	985	- 4404	2 424	0.404	40	
Ominand Treat	Residential - Single Family Dwelling		Count			.,	493	1,191	2,421	3,191	49	4,75
Orwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	12,924	25.0	2,585	646	1,939				
	gas_oil_wells	Point	Count	3	0.0	0			ŧ			
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	14,840	0.0	3,116	0	13,116				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	40,546	0.0	202,729	15,407	0				***************************************
	NG_Pipelines	Linear	Length (ft)	6,469	0.0	1,811	0	1,811				
	Residential - Manuf. Housing	Point	Count	1	100.0	22	22	-				
	Residential - Single Family Dwelling	Point	Count	81	46.6	20,688	9,646	11,042		i		
	Transmission Line	Linear	Length (ft)	8,083	0.0	2,602		2,602	25,721	11,042	170	9,46
Palm_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	24,442	25.0	4,888	1,222	3,666				
	gas_oil_wells	Point	Count	1	0.0	0	•	•	j			
	gas_oil-production_fields	Point	Area (acres	100	0.0	0	•	-	1			
	NG_Pipelines	Linear	Length (ft)	10,249	0.0	2,870	0	2,870	1	į		
	Rail_HAZUS_SDURS	Linear	Length (ft)	12,627	25.0	3,599	900	2,699		Į.		
	Residential - Manuf. Housing	Point	Count	1	100.0	47	47	-	j	1		
	Residential - Single Family Dwelling	Point	Count	9	100.0	1,976	1,976	0	l	1		
	Transmission Line	Linear	Length (ft)	5,169	0.0	1,664	-	1,664	4,145	0	0	10,89
Peter Pocket	gas_oil_wells	Point	Count	3	0.0	0		-				
	gas oil-production fields	Point	Area (acres	406	0.0	0		-				
	NG wells	Pòint	Count	2	0.0	0				I		- ,
	Residential - Single Family Dwelling	Point	Count	1	16.4	209	34	175		l		
	Transmission Line	Linear	Length (ft)	864	0.0	278		278	34	175	1	27
Pico_Naglee_Tract	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	9.806	25.0	3,236	809	2,427		.,,,	•	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,771	25.0	1,554	389	1,166				
	gas oil wells	Point	Count	- ',' ' 2	0.0	1,004		1,100				
	NG Pipelines	Linear	Length (ft)	8.918	0.0	1,694	<u> </u>	1,694	i		1	
	Residential - Manuf. Housing	Point	Count	1	44.0	60	26	34	i			
	Residential - Single Family Dwelling	Point'	Count	19	20.8	4,302	893	3,409	ı			
	Transmission Line	Linear	Length (ft)	1.083	0.0	267	033	267	į.			,
	utilities	Point	Count	1,000	0.0	20/		201	2,117	3,443	441	5,55
Pierson Tract	Communication HAZUS SDURS	Point	Count	3	100.0	354	354		2,117	3,443	441	5,55
1013011_11401	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	8,242	25.0	2.720		2,040				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	48,597	25.0	9,719	680		1			
	Fire Stations HAZUS SDURS	Point	Count	40,087	25.0	9,719	2,430	7,290	1	1		
	gas oil wells	Point	Count	8	0.0			708	1]		
	gas oil-production fields	Point	Area (acres	109		- 0			l	1		
	hwy_Bridge_HAZUS_SDURS	Point	Count Count	109	0.0			4 000	l			
	hwy HAZUS SDURS	Linear		5,832		4,000	. U	4,000	1	1		
	Residential - Manuf. Housing	Point	Length (ft)	5,832	0.0	1,924	0	1,924		1		
			Count		100.0	202	202	-, -,		l		
	Residential - Single Family Dwelling	Point	Count	54	39.1	7,642	2,990	4,652	ŀ	i		
	Schools_HAZUS_SDURS	Point	Count	2	0.0	1,180	이	1,180				
littahuwa	Transmission Line	Linear	Length (ft)	2,764	0.0	680		680	6,656	10,540	92	11,93
Pittsburg	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	552	25.0	110	28	83				
	NG_Pipelines	Linear	Length (ft)	3,070	0.0	583	Ö	583	1	- 1		
	Petroleum Pipelines	Linear	Length (ft)	3,751	0.0	3,751	0	3,751	1	1		
	Port_HAZUS_SDURS	Linear	Length (ft)	1]	0.0	2,572	0	2,572	- 1	i		
	rail_1000_nodes	Linear	Length (ft)	2	0.0	0		-	J	I		
	Rail_HAZUS_SDURS`	Linear	Length (ft)	10,235	25.0	2,917	729	2,188	İ	J		
	Residential - Manuf. Housing	Point	Count	1	100.0	28	28	•	1	ŀ		
			Count	1	22.5	457	103	354				
	Residential - Multi Dwellings - 50+ units		Count	1	22.5	237	53	184]	I		
	Residential - Single Family Dwelling	Point	Count	28	20.8	5,610	1,164	4,446	J			
	substation_ca Transmission Line	Point Linear	Count Length (ft)	24,176	25.0 0.0	1,000	250	750	l l	1		

	10.1.		17 11 70 1				a=-1				
Prospect_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,398	25.0	1,080	270	810	1		
	gas_oil_wells	Point	Count	12	0.0	0			I		
	gas_oil-production_fields	Point	Area (acres	300	0.0	0					
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	15.5 20.8	447	0	754	200	255	
A.J., C. 1. C	Residential - Single Family Dwelling	Point	Count				93	354	363	355	9 8
Quimby_Island	Bridges not in HAZUS	Point	Count	1	0.0	1,000	0	1,000			
	gas_oil_wells	Point	Count	1	0.0 100.0	0 84	84			4 000	70
Dinder Treet	Residential - Single Family Dwelling	Point	Count (ft)	95.006				10.751	84	1,000	79
Rindge_Tract	Delta Roads PBSJ Minor Roads	Linear Point	Length (ft) Count	85,006	25.0 0.0	17,001	4,250	12,751	1		
	gas_oil_wells NG wells	Point		4	0.0	0					
	Residential - Manuf. Housing	Point	Count Count		100.0	83	83				
	Residential - Manur. Housing Residential - Single Family Dwelling	Point	Count		100.0	534	534				
	US Cell Towers	Point	Count	1	0.0	250	334	250	4,867	250	4 12.7
Rio_Blanco_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,927	25.0	585	146	439	4,007	2.00	7 12,7
(IO_DIAIICO_TTACE	gas oil wells	Point	Count	2,321	0.0	0	140	433			
	hwy_Bridge_HAZUS_SDURS	Point	Count	- 1	0.0	2,000		2,000			
	hwy HAZUS SDURS	Linear	Length (ft)	495	25.0	163	41	123	j		
	Transmission Line	Linear	Length (ft)	6,826	0.0	1,681	- 7'	1,681	187	2,000	149 2,2
Roberts Island	Boatlaunch	Point	Count	1	0.0	100	0	100	107	100	739
Rough and Ready Island	air trans	Point	Count	1	0.0	100		,00		,00	700
.vogunu_reauy_isidiu	Commercial - Entertainment and Recre	Point	Count		16.0	504	81	423	ļ	İ	
	Commercial - Personal and Repair Sen		Count		19.0	938	178	760			
	Commercial - Wholesale Trade	Point	Count		16.0	4,608	737	3,871	ļ		
	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	4,690	25.0	1,548	387	1,161		l	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	45,755	25.0	9,151	2,288	6,863	l		-
	gas oil wells	Point	Count	10,700	0.0	3,131	2,200	0,000	l		
	Government - General Services	Point	Count	10	14.0	11,669	1,634	10,035	ł		
	Hazmat HAZUS SDURS	Point	Count	3	0.0	71,000		10,000			
	Industrial - Heavy	Point	Count	1	22.0	1,253	276	977	l	l	
	Petroleum Pipelines	Linear	Length (ft)	7,384	0.0	7,384	·0	7,384			
	rail 1000 nodes	Linear	Length (ft)	5	0.0	0		.,,			
	Rail HAZUS SDURS	Linear	Length (ft)	20,357	25.0	5,802	1,450	4,351			
	Residential - Manuf. Housing	Point	Count	7	100.0	231	231		1	l l	
	Residential - Single Family Dwelling	Point	Count	11	32.6	1,477	482	995	7,744	17,062	14,808 19,7
Ryer Island	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,851	25.0	611	153	458			
-	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	44,230	25.0	8,846	2,212	6,635	1	ľ	***************************************
	gas_oil_wells	Point	Count	10	0.0	0	-	-	1		
	gas_oil-production_fields	Point	Area (acres	46	0.0	0	-	-	1		
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	.0	2,000		Ĭ	
	hwy_HAZUS_SDURS	Linear	Length (ft)	44,661	0.0	14,738	0	14,738	1	l	
	Residential - Manuf. Housing	Point	Count	2	100.0	96	96	-	1	1	
	Residential - Single Family Dwelling	Point	Count	23	100.0	4,384	4,384	, 0	6,844	2,000	27 21,8
Sargent_Barnhart_Tract 2	air_trans	Point	Count	1	0.0	0	-	-			
_	Commercial - Medical Office Clinic	Point	Count	1	17.0	774	132	642	1	1	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	92,847	25.0	18,569	4,642	13,927	1		
	gas_pipeline_kinder_morgan_LS_9	Linéar	Length (ft)	5,566	0.0	1,169	0	11,169	1	1	
	hc_ambulatory	Point	Count	1	2.0	Ó		-	- 1	1	
	mokelumne_aqueduct_pipe	Linear	Length (ft)	16,471	0.0	82,357	0	82,357	- 1	1	
	Petroleum Pipelines	Linear	Length (ft)	6	0.0	6	0	6	l	1	
	Residential - Manuf. Housing	Point *	Count	6	100.0	399	399		l		
	Residential - Multi Dwellings - 10 to 19		Count	1	43.0	638	274	364	j	l	
	Residential - Multi Dwellings - 50+ units		Count	1	43.0	9,177	3,946	5,231	l	i	
	Residential - Single Family Dwelling	Point	Count	1,044	100.0	235,436	235,436	0	l	l	
	Schools_HAZUS_SDURS	Point	Count	1	11.0	590	65	525	İ	İ	
	substation_ca	Point	Count	1]	25.0	1,000	250	750	1	I	
	Transmission Line	Linear	Length (ft)	7,749	0.0	1,908	-	1,908	245,144	7,512	205 99,3
argent_Barnhart_Tract 3	Commercial - Entertainment and Recre		Count	4	1.0	3,230	32	3,198			
	Commercial - Personal and Repair Serv		Count	1	0.0	493	0	493	1	İ	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	1,225	0.0	245	Ó	245	1	ł	
	Residential - Multi Dwellings - 10 to 19		Count	1	13.5	50	7	43	1	1	
	Residential - Multi Dwellings - 50+ units		Count		13.5	181	24	157			

	Residential - Single Family Dwelling	Point	Count	23	12.5	4,686	586	4,100	649 [7,991	82	
Schafter-Pintail Tract	Delta Roads_PBSJ_Minor_Roads	Linear	Length (ft)	12,297	25.0	2,459	615	1,844		7,001	- 02	
Condition a manual article	gas oil wells	Point	Count	1	0.0	2,400		1,044	•			
	Residential - Single Family Dwelling	Point	Count	1	37.0	309	114	195	729	195	22	
Sherman Island	Boatlaunch	Point	Count	3	0.0	300	0	300			· · · · · · · · · · · · · · · · · · ·	
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,521	25.0	502	125	376				
		Linear	Length (ft)	69,133	25.0	13,827	3,457	10,370	1			
	gas_oil_wells	Point	Count	31	0.0	0	- 1	-	i i			
	gas oil-production fields	Point	Area (acres	530	0.0	0	-	-	i i	i		
	hwy_HAZUS_SDURS	Linear	Length (ft)	19,828	25.0	6,543	1,636	4,907	į į			
	NG_Pipelines	Linear	Length (ft)	65,495	0.0	21,613	0	21,613				
	NG_wells	Point	Count	3	0.0	. 0		-				
	Residential - Manuf. Housing	Point	Count	26	100.0	887	887		ŀ			
		Point	Count	1	100.0 100.0	42 3.037	3,037	0	ŀ	i		
	Residential - Single Family Dwelling Transmission Line	Point	Count	21 21,392	0.0	3,037 6,887	3,037	6 997	0.484	200	4.	
Shima Tract	Delta Roads PBSJ Minor Roads	Linear Linear	Length (ft)	964	25.0	193	48	6,887 145	9,184	300	16	
Jimia_Hatt	Transmission Line	Linear Linear	Length (ft)	17,639	25.0	4,343	40	4,343	48	n	₁	
Shin_Kee_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	1,484	25.0	297	74	223	40			
Omi_nee_Hatt	gas oil wells	Point	Count	1,404	0.0	297	- '4	- 223	ļ		<u> </u>	
	Transmission Line	Linear	Length (ft)	2,073	0.0	510		510	74	٥	۰ ا	
Simmons-Wheeler_Island		Point	Count	2,070	20.8	140	29	111	29	111	7	
SM-123		Linear	Length (ft)	6,122	25.0	1,224	306	918				
		Point	Count	1	0.0	2,000	000	2,000	ļ			
	Petroleum Pipelines	Linear	Length (ft)	6	0.0	6	Ö	6				
		Point	Count	1	12.5	119	15	104				
	Transmission Line	Linear	Length (ft)	312	0.0	77	-	77	321	2,104	95	
SM-124	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	724	25.0	239	60	179				
		Linear	Length (ft)	9,144	25.0	1,829	457	1,372		i		
	gas_oil_wells	Point	Count	1	0.0	0	-					
		Point	Count	<u>'</u>	7.0	711	50	661				
		Linear	Length (ft)	1,966	0.0	373	0	373				
	Petroleum Pipelines	Linear	Length (ft)	2,637	0.0	2,637	0	2,637	1			
		Linear	Length (ft)	1	0.0	0				İ		
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,057	0.0	586	0	586				
		Point Point	Count	4	11.0 13.5	51 238	6	45 206				
	Residential - Multi Dwellings - 10 to 19		Count		13.5	327	32 44	283			ļ	
		Point	Count	135	12.5	23,831	2,979	20,852				
	Sewage Treatment	Point	Count	133	0.0	175,000	2,515	26,250	1		 	
	Transmission Line	Linear	Length (ft)	3,814	0.0	939		939	3,627	48,297	1,334	
SM-132		Point	Count	1	0.0	0			0,027	40,207	1,004	
		Point	Count		37.0	176	65	111	65	111	220	
SM-133		Point	Count	9	0.0	0						
		Point	Area (acres	203	0.0	- 8			o	٥	۰	
SM-134		Point	Count	1	0.0	ol			- -			
	gas_oil-production_fields	Point	Area (acres	1	0.0	ő		· -	o	ol	۰,	
SM-198		Linear	Length (ft)	662	25.0	132	33	99	<u> </u>			
	gas_oil_wells	Point	Count	3	0.0	0	-	-	1	ł		
	NG_Pipelines	Linear	Length (ft)	4,303	0.0	818	0	818	1	l		
		Linear	Length (ft)	5,048	0.0	5,048	0	5,048	1	1		
	Rail HAZUS SDURS	Linear	Length (ft)	422	25.0	120	30	90	I			
		Point	Count	1	38.5	15	6	9	l	1		
		Point	Count	4	37.0	630	233	397	302	406	267	
SM-199	Communication_HAZUS_SDURS	Point	Count	1	49.0	118	58	60				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,663	25.0	533	133	400	I	l		
		Point	Count	1	32.0	10	3	7				
CM 000		Point	Count	- 2	32.6	440	144	296	338	363	9	
SM-202 SM-39	Residential - Single Family Dwelling Delta_Roads_PBSJ_Minor_Roads	Point	Count	1	20.8	165	34	131	34	131	12	
		Linear	Length (ft)	7,276	25.0	1,455	364	1,091				

SM-40	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	7,779	25.0	1,556	389	1.167	389	0	0	1,167
SM-41	Commercial - Professional and Technic	Point	Count	1,,,,,	16.0	1,555	009	1,107	303			1,107
	Commercial - Retail Trade	Point	Count	 	14.0	33	5	28	l			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	217	25.0	43	11	33				
	Petroleum Pipelines	Linear	Length (ft)	9,239	0.0	9,239	Ö	9,239				
	Rail_HAZUS_SDURS	Linear	Length (ft)	5,520	0.0	1,573	Ö	1,573	16	30	2	10,845
SM-42	substation ca	Point	Count	1	25.0	1,000	250	750				
	Transmission Line	Linear	Length (ft)	3,060	0.0	753		753	250	750	162	753
SM-43	gas oil wells	Point	Count	4	0.0	O	-	-				
	gas oil-production fields	Point	Area (acres	80	0.0	0	•	-				
	Residential - Single Family Dwelling	Point	Count	1	29.3	167	49	118	49	118	14	0
SM-44	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,456	25.0	1,691	423	1,268				
	Residential - Single Family Dwelling	Point	Count	3	16.4	666	109	557				
	Transmission Line	Linear	Length (ft)	2,710	0.0	667	•	667	532	557	6,563	1,936
SM-46	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,339	25.0	468	117	351	117	0	0	351
SM-47	Solid Waste Facilities	Point	Count	1	0.0	0		-	0	0	0	0
SM-48	Commercial - Entertainment and Recrea	Point	Count	1	9.0	719	65	654				
	Commercial - Professional and Technic		Count	1	11.0	838	92	746				
	Commercial - Retail Trade	Point	Count	2	9.0	14,909	1,342	13,567			1	
	gas_oil_wells	Point	Count	2	0.0	0	7,7	-				
	Petroleum Pipelines	Linear	Length (ft)	20,675	0.0	20,675	0	20,675				
	Rail_HAZUS_SDURS	Linear	Length (ft)	9,922	25.0	2,828	707	2,121	2,206	14,967	1,717	22,796
SM-49	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,642	25.0	528	132	396		· · · · · · · · · · · · · · · · · · ·	***	
	Petroleum Pipelines	Linear	Length (ft)	2,421	0.0	2,421	0	2,421				
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,395	25.0	1,253	313	940	l i			
	Residential - Single Family Dwelling	Point	Count	. 2	16.4	484	79	405	525	405	4,769	3,757
SM-51	gas_oil-production_fields	Point	Area (acres	2	0.0	0	-	-	0	0	0	0
SM-52	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,849	25.0	370	92	277				
	gas_oil_wells	Point	Count	6	0.0	Ö	-	-				
	gas_oil-production_fields	Point	Área (acres	169	0.0	0	-	-				
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	28.5	2	1	1				
	Residential - Single Family Dwelling	Point	Count		25,8	300	77	223	170	224	53	277
SM-53	Commercial - Retail Trade	Point	Count	1	16.0	14	2	12				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	53	0.0	11	Ó	11	-			
	gas_oil_wells	Point	Count	1	0.0	0		-	i			
	gas_oil-production_fields	Point	Area (acres	96	0.0	0	-	-	1			
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	15.5	1	0	1	2	13	1	11
SM-54	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,720	25.0	344	86	258				
	gas_oil_wells	Point	Count	1	0.0	0	•	-				
	Rail_HAZUS_SDURS	Linear	Length (ft)	1,917	25.0	546	137	410	223	0.	0	668
SM-55	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,381	25.0	2,876	719	2,157				
	NG_Pipelines	Linear	Length (ft)	4,432	0.0	842	0	842	1			
	Petroleum Pipelines	Linear	Length (ft)	4,260	0.0	4,260	0	4,260				
		Point	Count	2	29.3	351	103	248	822	248	685	7,259
SM-56	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,417	25.0	1,083	271	812				
	gas oil wells	Point	Count	2	0.0	0	-1		l			
	NG_Pipelines	Linear	Length (ft)	4,637	0.0	881	0	881	l			
		Linear	Length (ft)	3,100	0.0	3,100	0	3,100				
CM E7		Point	Count	3	20.8	577	120	457	391	457	128	4,794
SM-57	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,560	25.0	912	228	684				
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000				
		Linear	Length (ft)	535	0.0	102		102				
CM E0	Transmission Line	Linear	Length (ft)	5,521	0.0	1,359		1,359	228	2,000	845	2,145
SM-58 SM-59	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,840	25.0	768	192	576	192	. 0	0	576
9M-5A	gas_oil_wells	Point	Count	5	0.0	. 0				-		
		Point	Area (acres	200	0.0	, 0		-				
014.00		Linear	Length (ft)	631	25.0	208	52	156	52	0	0	156
SM-60	Commercial - Entertainment and Recre		Count	1	9.0	664	60	604				
	Commercial - Professional and Technic		Count	1	11.0	938	103	835				
	Commercial - Retail Trade	Point	Count	1	9.0	335	30	305				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	805	25.0	161	40	121	i I			

SM-40	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	7,779	25.0	1,556	389	1.167	389	0	0	1,167
SM-41	Commercial - Professional and Technic	Point	Count	1,,,,,	16.0	1,555	009	1,107	303			1,107
	Commercial - Retail Trade	Point	Count	 	14.0	33	5	28	l			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	217	25.0	43	11	33				
	Petroleum Pipelines	Linear	Length (ft)	9,239	0.0	9,239	Ö	9,239				
	Rail_HAZUS_SDURS	Linear	Length (ft)	5,520	0.0	1,573	Ö	1,573	16	30	2	10,845
SM-42	substation ca	Point	Count	1	25.0	1,000	250	750				
	Transmission Line	Linear	Length (ft)	3,060	0.0	753		753	250	750	162	753
SM-43	gas oil wells	Point	Count	4	0.0	O	-	-				
	gas oil-production fields	Point	Area (acres	80	0.0	0	•	-				
	Residential - Single Family Dwelling	Point	Count	1	29.3	167	49	118	49	118	14	0
SM-44	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,456	25.0	1,691	423	1,268				
	Residential - Single Family Dwelling	Point	Count	3	16.4	666	109	557				
	Transmission Line	Linear	Length (ft)	2,710	0.0	667	•	667	532	557	6,563	1,936
SM-46	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,339	25.0	468	117	351	117	0	0	351
SM-47	Solid Waste Facilities	Point	Count	1	0.0	0		-	0	0	0	0
SM-48	Commercial - Entertainment and Recrea	Point	Count	1	9.0	719	65	654				
	Commercial - Professional and Technic		Count	1	11.0	838	92	746				
	Commercial - Retail Trade	Point	Count	2	9.0	14,909	1,342	13,567			1	
	gas_oil_wells	Point	Count	2	0.0	0	7,7	-				
	Petroleum Pipelines	Linear	Length (ft)	20,675	0.0	20,675	0	20,675				
	Rail_HAZUS_SDURS	Linear	Length (ft)	9,922	25.0	2,828	707	2,121	2,206	14,967	1,717	22,796
SM-49	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,642	25.0	528	132	396		· · · · · · · · · · · · · · · · · · ·	***	
	Petroleum Pipelines	Linear	Length (ft)	2,421	0.0	2,421	0	2,421				
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,395	25.0	1,253	313	940	l i			
	Residential - Single Family Dwelling	Point	Count	. 2	16.4	484	79	405	525	405	4,769	3,757
SM-51	gas_oil-production_fields	Point	Area (acres	2	0.0	0	-	-	0	0	0	0
SM-52	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,849	25.0	370	92	277				
	gas_oil_wells	Point	Count	6	0.0	Ö	-	-				
	gas_oil-production_fields	Point	Área (acres	169	0.0	0	-	-				
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	28.5	2	1	1				
	Residential - Single Family Dwelling	Point	Count		25,8	300	77	223	170	224	53	277
SM-53	Commercial - Retail Trade	Point	Count	1	16.0	14	2	12				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	53	0.0	11	Ó	11	-			
	gas_oit_wells	Point	Count	1	0.0	0		-	i			
	gas_oil-production_fields	Point	Area (acres	96	0.0	0	-	-	1			
	Residential - Multi Dwellings - 10 to 19	Point	Count	1	15.5	1	0	1	2	13	1	11
SM-54	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,720	25.0	344	86	258				
	gas_oil_wells	Point	Count	1	0.0	0	•	-				
	Rail_HAZUS_SDURS	Linear	Length (ft)	1,917	25.0	546	137	410	223	0.	0	668
SM-55	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,381	25.0	2,876	719	2,157				
	NG_Pipelines	Linear	Length (ft)	4,432	0.0	842	0	842	l !			
	Petroleum Pipelines	Linear	Length (ft)	4,260	0.0	4,260	0	4,260				
		Point	Count	2	29.3	351	103	248	822	248	685	7,259
SM-56	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,417	25.0	1,083	271	812				
	gas oil wells	Point	Count	2	0.0	0	-1		l			
	NG_Pipelines	Linear	Length (ft)	4,637	0.0	881	0	881	l			
		Linear	Length (ft)	3,100	0.0	3,100	0	3,100				
CM E7		Point	Count	3	20.8	577	120	457	391	457	128	4,794
SM-57	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,560	25.0	912	228	684				
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000				
		Linear	Length (ft)	535	0.0	102		102				
CM E0	Transmission Line	Linear	Length (ft)	5,521	0.0	1,359		1,359	228	2,000	845	2,145
SM-58 SM-59	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,840	25.0	768	192	576	192	. 0	0	576
9M-5A	gas_oil_wells	Point	Count	5	0.0	. 0				-		
		Point	Area (acres	200	0.0	, 0		-				
014.00		Linear	Length (ft)	631	25.0	208	52	156	52	0	0	156
SM-60	Commercial - Entertainment and Recre		Count	1	9.0	664	60	604				
	Commercial - Professional and Technic		Count	1	11.0	938	103	835				
	Commercial - Retail Trade	Point	Count	1	9.0	335	30	305				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	805	25.0	161	40	121	i I			

	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000	233	3,744	456	1
SM-84	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	40,711	25.0	8,142	2,036	6,107				
	gas_oil_wells	Point	Count	4	0.0	0		-	1		i	
	gas_oil-production_fields	Point	Area (acres	9	0.0	0		-		074		
	Residential - Single Family Dwelling	Point	Count	/	29.3	1,372	401	971	2,437	971	65	6,1
SM-85-Grizzly_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	42,407 11	25.0 0.0	8,481	2,120	6,361			i	ļ
	gas_oil_wells gas_oil-production_fields	Point Point	Count Area (acres		0.0	0					i	ļ
	NG Pipelines	Linear	Length (ft)	28,157	0.0	5,350	0	5,350			i	
	Petroleum Pipelines	Linear	Length (ft)	2,326	0.0	2,326	0	2,326			i	
	Residential - Single Family Dwelling	Point	Count	2,520	29.3	908	266	642	2,386	642	8,253	14,0
Smith Tract	Residential - Single Family Dwelling	Point	Count	1	12.5	153	19	134	19	134	13	
Staten_Island	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	4,422	25.0	1,459	365	1,094		104	19	
Justen_island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	16,055	25.0	3,211	803	2,408			i	
	gas_oil_wells	Point	Count	20	0.0	0,211		2,400			i	
	gas_oil-production_fields	Point	Area (acres	1,092	0.0	ŏ		_			i	
	NG Pipelines	Linear	Length (ft)	14,653	0.0	3,810	. 0	3,810			Í	
	NG wells	Point	Count	3	0.0	0		•			i	
	Residential - Manuf. Housing	Point	Count	' 4	100.0	122	122	•		1	i	
	Residential - Single Family Dwelling	Point	Count	2	100.0	192	192	0	1,482	0	0	7,3
Sutter Island	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	3,515	25.0	1,160	290	870				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	61,390	25.0	12,278	3,069	9,208		1	i	
	gas_oil_wells	Point	Count	5	0.0	0		-		1	i	
	hwy_HAŻUS_SDURS	Linear	Length (ft)	5,145	25.0	1,698	424	1,273		- 1		
	Residential - Manuf. Housing	Point	Count	2	100.0	35	35			- 1	i	
	Residential - Multi Dwellings - 10 to 19		Count	1	38.5	299	115	184			i	
	Residential - Multi Dwellings - 50+ units		Count	33	38.5 37.0	79	30	49			707	
Townster and Towns of the	Residential - Single Family Dwelling	Point	Count			6,014	2,225	3,789	6,190	4,021	727	11,3
Terminous_Tract 1	Delta_Roads_PBSJ_Minor_Roads gas_oil_wells	Linear Point	Length (ft)	1,329	25.0 0.0	266 0	. 66	199			ſ	
			Count	27	0.0	- 0					1	
	gas_oil-production_fields hwy HAZUS SDURS	Point Linear	Area (acres Length (ft)	763	25.0	252	63	189			1	
	Residential - Manuf. Housing	Point	Count	703	44.0	92	40	52		1	1	
	Residential - Single Family Dwelling	Point	Count		16.4	144	24	120		1	1	
	Schools_HAZUS_SDURS	Point	Count	1	0.0	590		590	193	762	54	. 3
Terminous_Tract 2	Agriculture	Point	Count	1	100.0	953	953	000	- 100	102		
	Boatlaunch	Point	Count	1	100.0	100	100	<u> </u>			1	
	Commercial - Wholesale Trade	Point	Count	1	49.0	1,610	789	821	i i		1	
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	2,780	25.0	917	229	688			1	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	57,147	25.0	11,429	2,857	8,572			1	
	gas_oil_wells	Point	Count	9	0.0	0	-	-			1	
	gas_oil-production_fields	Point	Area (acres	303	0.0	0	-	-	į.		ĺ	
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000	1		1	
	hwy_HAZUS_SDURS	Linear	Length (ft)	4,771	25.0	1,574	394	1,181			1	
	NG_wells	Point	Count	1	0.0	0	- [-	-	l	i	
	Residential - Manuf, Housing	Point	Count	121	100.0	4,126	4,126	-	l		i	
	Residential - Single Family Dwelling	Point	Count	48	100.0	6,493	6,493	0		[
	US_Cell_Towers	Point	Count	1	0.0	250	•	250	15,941	3,071	1,030	10,4
erminous_Tract 3	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	251	25.0	50	13	38	1	l		
	Residential - Manuf. Housing	Point	Count	7	100.0	230	230					
Funitabell Jaland		Point	Count	40.722	16.4	361	59	302	302	302	6,053	
「witchell_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	19,768	25.0	3,954	988	2,965		1		ļ
	gas_oil_wells	Point	Count	22	0.0	0				1		
	gas_oil-production_fields	Point	Area (acres	1,407	0.0	0		- 1 100				
	NG_Pipelines NG wells	Linear Point	Length (ft)	6,373 9	0.0 0.0	1,466	0	1,466				
	Residential - Manuf, Housing	Point Point	Count	19	100,0	663	663			!		
	Residential - Manuf. Housing Residential - Multi Dwellings - 10 to 19		Count	19	100.0	32	32	- 0	l	l		
	Residential - Single Family Dwelling	Point	Count	17	100.0	2,273	2,273	0	3,956	ام	0	4,4
yler Island 2	airport points	Point	Count	<u> </u>	0.0	2,2/3	2,213	<u> </u>	3,930	<u>_</u>	U	4,4
J	Airports HAZUS SDURS	Point	Count	'	25.0	6,431	1,608	4,823	Į	ŀ		
		Linear	Linear (ft)	5.160	25.0	1.703	426	1,277		į		
						1.703	420	1,411				•

	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	132,666	25.0	26,533	6,633	19,900	1			
	gas_oil_wells	Point	Count	45	0.0	0	-		1			
	gas_oil-production_fields	Point	Area (acres	2,107	0.0	0	-		1			
	hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000	0	2,000	, [
	NG_Pipelines	Linear	Length (ft)	14,527	0.0	3,051	0	3,051				
	NG_wells	Point	Count	4	0.0	0	-	<u> </u>				
	Residential - Manuf. Housing	Point	Count	1	100.0	106	106					
	Residential - Single Family Dwelling	Point	Count	13	100.0	2,319	2,319	0	i i			
	Runway_HAZUS_SDURS	Point	Count	1	0.0	36,674	0	36,674				
	Solid_Waste_Facilities	Point	Count	1	0.0	0	•	-	11,092	43,498	1,395	24,227
Union_Island 1	Dams_HAZUS_SDURS	Point	Count	1	0.0	0	•	-	1			
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	4,382	25.0	1,446	361	1,084	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	82,479	25.0	16,496	4,124	12,372				
	gas_oil_wells	Point	Count	5	0.0	0	•	•				
	gas_oil-production_fields	Point	Area (acres	148	0.0	0		-				
,	NG_Pipelines	Linear	Length (ft)	14,719	0.0	2,797	0	2,797				
	Residential - Manuf. Housing	Point	Count	4	100.0	131	131	-				
	Residential - Single Family Dwelling	Point	Count	15	37.0	2,320	858	1,462				
	Transmission Line	Linear	Length (ft)	29,470	0.0	7,256	` - [7,256	5,475	1,462	40	23,509
Union_Island 4	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	40	25.0	8	, 2	6				
	gas_oil-production_fields	Point	Area (acres	1	0.0	0	-		2	0	C	
Upper_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,664	25.0	333	83	250				
	gas_oil_wells	Point	Count	5	0.0	0	-		į			
	gas_oil-production_fields	Point	Area (acres	188	0.0	. 0			ĺ			
	NG_wells	Point	Count	3	0.0	0		-				
	Residential - Single Family Dwelling	Point	Count	1 0 1 0	16.4	124	20	104				
V 0:-11- 1-11	Transmission Line	Linear	Length (ft)	4,342	0.0	1,069	-	1,069	104	104	9	1,319
Van_Sickle_Island	gas_oil_wells	Point	Count	6	0.0	0						
	gas_oil-production_fields	Point	Area (acres	148	0.0	0						
	Residential - Single Family Dwelling	Point	Count	2	25.8	391	101	290				***************************************
Varia Transit d	Sewage_Treatment	Point	Count	1	15.0	100,000	15,000		15,101	290	57	C
Veale_Tract 1	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,068	25.0	414	103	310				
	gas_oil_wells	Point	Count	4	0.0	0						
	gas_oil-production_fields	Point	Area (acres	85	0.0	0	-					
	Residential - Manuf. Housing	Point	Count	4	100.0	132	132					
	Residential - Single Family Dwelling Transmission Line	Point	Count	23 12,208	39.1 0.0	4,672	1,828	2,844				
Veels Treet 2		Linear	Length (ft)			3,930		3,930	2,063	2,844	32	4,241
Veale_Tract 2	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	73	25.0	15	4	11				
	NG_Pipelines	Linear	Length (ft)		0.0 20.8	1	0	1				
Vanica Island	Residential - Single Family Dwelling	Point	Count	60.070		345	72	273	75	273	4	12
Venice_Island	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	62,979	25.0	12,596	3,149	9,447				
	gas_oil_wells Residential - Manuf. Housing	Point	Count	3	0.0	- 0			0.470			
Viotoria Island		Point	Count	20 101		30	30		3,179	0	0	9,447
Victoria_Island	Delta Roads PBSJ Minor Roads hwy HAZUS SDURS	Linear	Length (ft)	66,424	25.0	13,285	3,321	9,964	1			ļ., <u>.</u>
		Linear	Length (ft)	5,687	25.0	1,877	469	1,408	ı			
	NG Pipelines	Linear Point	Length (ft) Count	9,170	0.0 100.0	1,742	0	1,742	l			ļ
	Residential - Manuf, Housing Residential - Single Family Dwelling	Point		1	100.0	25 772	25	<u>.</u>	.]	l		
	Transmission Line	Linear	Count Length (ft)	9,614	0.0	3,095	772	3,095	4 507	ړ	_	40.000
Wainut Grove	Communication HAZUS SDURS	Point		3,014	0.0				4,587	0	0	16,209
**************************************			Count	2 202		354	0	354		l		ļ
	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear	Linear (ft)	3,282	25.0	1,083	271	812	l	l		
	gas oil wells	Linear Point	Length (ft) Count	23,843	25.0 0.0	4,769	1,192	3,576		l		
	gas_oil_wells gas_oil-production_fields	Point	Area (acres	279	0.0	0				ł		
	hc ambulatory	Point	Count	219	2.0	U			l	ł		
	hwy Bridge HAZUS SDURS	Point	Count	2	0.0	4,000		4 000		1		
	Residential - Manuf. Housing	Point	Count	4	100.0	277	277	4,000	j	- 1		
	Residential - Single Family Dwelling	Point	Count	141	37:0	25.165	277 9,311	15,854	44.054	20,208	04 040	
Water Zone 1	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	2,630	25.0	25,165			11,051	20,208	21,819	4,389
	Delta Roads PBSJ Minor Roads	Linear	Linear (it) Length (ft)	15,440	25.0 25.0	3.088	217 772	651	1			
	gas oil wells	Point	Count	15,440	0.0	3,088	112	2,316		1		
	gas oil-production fields	Point	Area (acres	77	0.0	- 0			1	i		
										1		

								<u></u>				
	hwy_HAZUS_SDURS	Linear	Length (ft)	8,280	25.0	2,732	683	2,049				
	NG_Pipelines	Linear	Length (ft)	411	0.0	115	0	115				
	Petroleum Pipelines	Linear	Length (ft)	4	0.0	4	0					
		Point	Count `	1	15.5	26	4	22				
	Residential - Multi Dwellings - 50+ units		Count	1	15.5	14	2	12				
	Residential - Single Family Dwelling	Point	Count	2	16.4	729	119	610			_	
	Transmission Line	Linear	Length (ft)	165	0.0	41	-	41	1,798	643		5,176
Water Zone 2	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1	25.0	0	0	0				
	gas_oil-production_fields	Point	Area (acres	35	0.0	0		-	_	_		
	Transmission Line	Linear	Length (ft)	. 1	0.0	0	-	, 0	0	0		0
Water Zone 3	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	0	24,0	0	. 0	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	0	25.0	0	0	0			ŀ	
	gas_oil-production_fields	Point	Area (acres	121	0.0	. 0	•	•		_	1	
	Transmission Line	Linear	Length (ft)	. 0	0.0	0	-	0	0	0	(0
Water Zone 4	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	55	25.0	11	3	8				
	gas_oil-production_fields	Point	Area (acres	4	0.0	.0	-	-				
	gas pipeline kinder morgan LS 9	Linear	Length (ft)	0	0.0	0	Ó	10,000				1
	Transmission Line	Linear	Length (ft)	0	0.0	0		0	3	0	0	8
Water Zone 5	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	0		0	0					
	Transmission Line	Lînear	Length (ft)	Ö	0.0	0	-	0	0	0		0
Webb_Tract	gas_oil_wells	Point	Count	10	0.0	0	•					
	gas_oil-production_fields	Point	Area (acres	82	0.0	0		•				
	NG_Pipelines	Linear	Length (ft)	1,291	0.0	245	0	245	1			
	NG_wells	Point	Count	1	0.0	0	-	•	0	0	C	245
Woodward_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	28,139	25.0	5,628	1,407	4,221				
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	7,820	0.0	1,642	0	11,642				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	23,350	0.0	116,749	8,873	,	10,280	0	C	5,863
Wright-Elmwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,701	25.0	1,940	485	1,455				
	gas_oil_wells	Point	Count * 1	2	0.0	0	-		•			
		Point	Count	1	100.0	53	53	0				
	Residential - Multi Dwellings - 50+ units		Count	1	100.0	42	42	0				
	Residential - Single Family Dwelling	Point	Count	4	39.1	829	324	505	1			
	Transmission Line	Linear	Length (ft)	32,244	0.0	7,939	-	7,939	904	505	116	9,394
Yolo_Bypass	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	982	25.0	196	49	147	49	0	C	147
Zone 14	gas_oil_wells	Point	Count	1	0.0	0	-	-				
	NG_Pipelines	Linear	Length (ft)	2,272	0.0	432	0	432	0	0		432
Zone 155	Transmission Line	Linear	Length (ft)	769	0.0	189	-	189	0	0	C	189
Zone 162	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,113	25.0	623	156	467				
	NG_Pipelines	Linear	Length (ft)	1,544	0.0	293	0	293				
	Residential - Single Family Dwelling	Point	Count	5	16.4	951	156	795	311	795	53	760
Zone 186	Transmission Line	Linear	Length (ft)	13,335	0.0	3,283	-	3,283	0	0	0	3,283
Zone 206	Bridges_not_in_HAZUS	Point	Count Count	1	0.0	1,000	0	1,000				
	Commercial - Entertainment and Recre	Poińt	Count	1	11.0	597	66	531				
•	Commercial - Personal and Repair Sen	Point	Count	1	12.0	610	73	537				
	Commercial - Professional and Technic	Point	Count	1	16.0	582	93	489				
	Commercial - Retail Trade	Point	Count	1	14.0	302	42	260				
	Commercial - Wholesale Trade	Point	Count	1	8.0	1,174	94	1.080				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,861	25.0	614	154	461				
	Delta Roads PBSJ Minor Roads	Liñear	Length (ft)	455	25.0	91	23	68				
	gas_oil_wells	Point	Count	1	0.0	0]			
	gas_oil-production_fields	Point	Area (acres	3	0.0	0	-		,			
	Petroleum'Pipelines	Linear	Léngth (ft)	31,151	0.0	31,151	0	31,151	į			
	rail_1000_nodes	Linear	Length (ft)	′ 2	0.0	O	-		1			
	Rail_HAZUS_SDURS	Lìnear	Length (ft)	2,053	25.0	585	146	439	691	3,897	84	32,119
Zone 207	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,855	25.0	371	93	278		,		1
		Linear	Length (ft)	1,905	0.0	1,905	0	1,905	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,129	25.0	1,177	294	883	387	ol	0	3,066
Zone 31	Residential - Single Family Dwelling	Point	Count	2	12.5	436	55	382	55	382	156	
Zone 33		Point	Count	1	12.5	166	21	145	21	145	82	
Zone 36	Residential - Multi Dwellings - 10 to 19		Count	1	13.5	4	1	3		140	02	<u>`</u>
		Point	Count	- 1	16.4	269	. 44	225	İ			
				<u> </u>				220				L

[Solid_Waste_Facilities	Point	Count	1	0.0	0	-	-	45	228	39	0
Zone 37	Commercial - Entertainment and Recre	Point	Count	1	14.0	723	101	622	, i			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	221	25.0	44	11	33				
	hc_ambulatory	Point	Count	1	2.0	0		•				
	hwy_HAZUS_SDURS	Linear	Length (ft)	60	25.0	20	5	15				
1	Petroleum Pipelines	Linear	Length (ft)	487	0.0	487	0	487				
		Linéar	Length (ft)	495	25.0	141	35	106				
		Point	Count	3	100.0	113	113	•				
	Residential - Multi Dwellings - 10 to 19		Count	1	28.5	20	6	14				
	Residential - Multi Dwellings - 50+ units		Count	1	28.5	36	10					
	Residential - Single Family Dwelling	Point	Count	4	29.3	490	143	347	425	1,008	84	640
Zone 38	Commercial - Professional and Technic	Point	Count	1	28.0	21	6	15				
	Commercial - Retail Trade	Point	Count	1	18.0	15	, 3	12				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	450	25.0	90	22	67				
İ	hwy_HAZUS_SDURS	Linear	Length (ft)	95	25.0	31	8	23				
	Petroleum Pipelines	Linear	Length (ft)	1,314	0.0	1,314	0	1,314				
	Rail_HAZUS_SDURS	Linear	Length (ft)	1,559	25.0	444	111	333				
	Residential - Multi Dwellings - 10 to 19		Count	1	15.5	1	0	1				
	Residential - Multi Dwellings - 50+ units	Point	Count	1	15.5	8	1	7	151	35	5	1,738
Zone 64			Area (acres	2	0.0	0						
	Residential - Single Family Dwelling	Point	Count	2	12.5	392	49	343	49	343	299	0
Zone 90	Hazmat_HAZUS_SDURS	Point	Count	2	0.0	0	-	-				
1	Petroleum Pipelines	Linear	Length (ft)	26	0.0	26	0	26				
	Rail_HAZUS_SDURS	Linear	Length (ft)	13	25.0	4	1	3	1	0	0	29

Table 7 - 3b: Estimate of Asset Cost Damage by Island (100-year Flood) - Scour- Current

1	2	3	4	5	6	7	8	9	10	11	12	13
Island Name	Asset Type	Structure Type	Inventory Unit	GIS Quantity (current)	Percent Damage	Total Asset Value	100 Year Inundation Repair Costs (\$1,000)	Differential Repair Costs (\$1,000)	100 Year Inundation Repair Costs - By Island (\$1,000)	Differential Repair Costs for Point Assets - By Island (\$1000)	1,000ft Increment Repair Costs for Point Assets - By Island (\$1,000)	Differential Repair Costs for Linear Assets - By Island (\$1,000)
Bacon_Island	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	31,752	25.0	6,350	1,588	4,763				
-	Gas_oil_wells	Point	Count	5	0.0	-	0	C				
	NG_Pipelines	Linear	Length (ft)	12,115	0.0		0	3,695				
	Residential - Institutional Dormitory	Point	Count	3	100.0	9,953	9,953	C	11,541	0	0	8,458
Bethel_island	boatlaunch	Point	Count	3	100.0	300	300					
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	94,725	25.0	18,945	4,736	14,209				
	gas_oil_production_fields	Point	Area	478	0.0	_	. 0	C			l	
	Gas_oil_wells	Point	Count	16	0.0		0		1			
	NG_Pipelines	Linear	Length (ft)	10,446	0.0	1,985	0	1,985	1			
	NG_Wells	Point	Count	2	0.0		0	C	1			
	Residential - Duplex	Point	Count	4	100.0	1,323	1,323	C	4	I	I	
	Residential - Manuf. Housing	Point	Count	220	100.0	7,525	7,525	C	1	l		
	Residential - Single Family Dwelling	Point	Count	510	100.0	93,140	93,140	C	1			
	Utilities	Point	Count	1	0.0		0					
	water_trans	Point	Count	2	0.0	-	0	0	107,024	0	0	16,193
Bishop Tract	boatlaunch	Point	Count	1	100,0	100	100	0				
	Commercial-Retail Trade	Point	Count	1	30.0	18	5					
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	64,590	25.0	12,918	3,229	9,686				
	gas oil production fields	Point	Area	83	0.0	-	.0					
	Gas oil wells	Point	Count	1	0.0		0	C				
	Hwy Bridge HAZUS SDURS	Point	Count	4	25.0	8,000	2,000	6,000	1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,207	25.0	1,718	430	1,289				
	Residential - Single Family Dwelling	Point	Count	273	43.6	56,420	24,613	31,807	1	1		
	transin_ca	Linear	Length (ft)	16,663	0.0	4,103	0	4,103	30,378	37,819	864	15,080
Bixler Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	150	25.0	30	7	22				
_	gas oil production fields	Point	Area	86	0.0	-	0	Ċ				
	Gas oil wells	Point	Count	3			0	0				
	Residential - Single Family Dwelling	Point	Count	3	32.6	754	246	508	253	508	165	22
Boggs_Tract	bridges not in HAZUS	Point	Count	1	25.0	1,000	250	750				
	Commercial-Professional - Technical S		Count	,, 1	22.0	7,163	1,576	5,587	1	1		
	Commercial-Retail Trade	Point	Count	1	16.0	3,399	544	2,855	1	1		1
	Commercial-Wholesale Trade	Point	Count	9	11.0	20,441	2,249	18,192	1	1		
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	9,927	25.0	3,276	819	2,457	1	1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	67,157	25.0	13,431	3,358	10,074	1			
	Hazmat HAZUS SDURS	Point	Count	12	0.0		C) (1			
	hc ambulatory	Point	Count	1		-	0) (1			
	hc nursing res	Point	Count	1	7.0	-	. 0	0	1	l		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500		l		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	2,165		715	179		5]	I		
	Industrial - Heavy	Point	Count	2	15.0	7,436	1,115	6,321]	l		
	Industrial - Light	Point	Count	1	17.0	2,395	407					l
	Petroleum Pipelines	Ĺinear	Length (ft)	13,029	0.0	2,736	C	2,736]	I		
	pipèline_trans	Point	Count	1	0.0	-	0) (]	l		
	Port_HAZUS_SDURS	Point`	Count	12	0.0	30,869	0	30,869	9	l		
	Rail_1000_nodes	Point	Count	2	0.0	-	0		1	l		
	Rail_Bridge_HAZUS_SDURS	Point	Count	1	25.0	1,000	250	750]	l		
	Rail Facility HAZUS SDURS	Point	Count	3	25.0		1,929		1	ł]

	Rail HAZUS SDURS	Linear	Length (ft)	13,198	25.0	3,761	940	2,821				
	Residential - Duplex	Point	Count	26	25.5	7,408	1,889	5,519	i			
	Residential - Institutional Dormitory	Point	Count	1	14.0	1,489	208	1,281				
	Residential - Manuf. Housing	Point	Count	23	100.0	659	659	0			1	
	Residential - Single Family Dwelling	Point	Count	1,386	25.8	234,562	60,400	174,162			i	
	Schools_HAZUS_SDURS	Point	Count	2	0.0	1,180	0	1,180				
	sewage_treat	Point	Count	1	30.0	100,000	30,000	0	i			
	solid_waste_facilities	Point	Count	1	25.0		0	0				
	TankFarms	Point	Count	5	0.0 20.0	1,500	0	1,500	400.000	000 404	40,000	40.00
	Waste_Water_HAZUS_SDURS	Point	Count	1		78,588	15,718	7,859	123,990	269,101	10,208	18,62
Bouldin_Island	Commercial-Professional - Technical		Count	1	100.0	3,585	3,585	<u> </u>			ļ	
	Commercial-Retail Trade	Point	Count	1	100.0	561	561	0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1,505	25.0	497	124	373				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	42,545	25.0	8,509	2,127	6,382			ľ	
	Gas_oil_wells	Point	Count	14	0.0		0	0			Ė	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	18,408	25.0	6,075	1,519	4,556	7.040	0	ا	44.04
	Utilities	Point	Count	1	0.0		0	U	7,916	0	0	11,31
3rack_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,815	25.0	1,763	441	1,322			1	
	Gas_oil_wells	Point	Count	8	0.0		. 0	0	İ			
	NG_Pipelines	Linear	Length (ft)	5,787	0.0	1,331	0	1,331	ļ			
	Residential - Manuf. Housing	Point	Count	4	100.0	147	147	0		l	1	
	Residential - Single Family Dwelling	Point	Count	2	100.0	231	231	0	819	0	0	2,65
Bradford_island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	39,651	25.0	7,930	1,983	5,948				
	gas_oil_production_fields	Point	Area	642	0.0	-	0	0				
	Gas_oil_wells	Point	Count	11	0.0	-	0	0				
	NG_Pipelines	Linear	Length (ft)	3,733	0.0	1,082	0	1,082		i		
	NG_Wells	Point	Count	5	0.0	-	0	0	l l			
	Residential - Duplex	Point	Count	1	100.0	97	97	0	ŀ			
	Residential - Manuf. Housing	Point	Count	6	100.0	197	197	0				
	Residential - Single Family Dwelling	Point	Count	18	100.0	3,202	3,202	0	5,479	0	0	7,03
Brannan-Andrus Island	air trans	Point	Count	1	0.0	-	0	0				
	boatlaunch	Point	Count	8	100.0	800	800	0				
	Commercial-Entertainment and Recre	Point	Count	1	100.0	1,364	1,364	0				
	Commercial-Professional - Technical		Count	1	100.0	2,533	2,533	0	ŀ	i		
	Commercial-Retail Trade	Point	Count	1	100.0	2,078	2,078	0				
V.	Delta Roads PBSJ Major Roads	Linear	Length (ft)	22,069	25.0	7,283	1,821	5,462				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	187,578	25.0	37,516	9,379	28,137	į.			
	gas oil production fields	Point	Area	3,872	0.0		0	,	•			
	Gas oil wells	Point	Count	88	0.0		ő	ŏ				
	hc hospitals	Point	Count	1	100.0	- :1	0	0	1		i i	
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Hwy HAZUS SDURS	Linear	Length (ft)	34,137	25.0	11,265	2,816	8,449				
	NG Pipelines	Linear	Length (ft)	35,601	0.0	8,366		8,366	l	Į		
	NG Wells	Point	Count	48	0.0	3,300	0	0,300	1	ļ	1	
	Residential - Duplex	Point	Count	40	100.0	2,033	2,033		1		l	
	Residential - Manuf. Housing	Point	Count	234	100.0	8,127	8,127	<u>0</u>	i		ļ	
-	Residential - Multi-Dwellings - 10 to 19		Count	7 1	100.0	364	364		i			
	Residential - Single Family Dwelling	Point	Count	250	100.0	36,049	36,049				.	
	Residential - Triplex - Quads	Point	Count	200 3	100.0	1,653	1,653	- 0	į		1	
	solid waste facilities	Point	Count		25.0	1,000	1,653	0	1		l	
	transin_ca	Linear	Length (ft)	2,649	0.0	652	0	652	1		į.	
	water trans	Point	Count	2,049	0.0	002	- 0	032	70,017	3,000	16	51,06
rowns_Island	Hazmat HAZUS SDURS	Point	Count	2	0.0	<u>-</u>	0	0	70,017	3,000	0	51,00
yron_Tract 1	Commercial-Professional - Technical				100.0	1	- 0	- 0		<u>_</u>	<u>-</u> -	·
yron_rract i			Count	6,440					ļ		J	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,419	25.0	1,684	421	1,263]	i	ļ	
	Hwy_Bridge_HAZUS_SOURS	Point	Count	2 0 5 5	25.0	2,000	500	1,500			1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	6,850	25.0	2,260	565	1,695	j			
	Residential - Manuf. Housing	Point	Count	1	100.0	49	49	0	1	I	i	
	Residential - Single Family Dwelling	Point	Count	5	100.0	960	960	0				
	transin_ca	Linear	Length (ft)	10,358	0.0	3,335	0	3,335	2,496	1,500	25	6,29
Byron_Tract 2	boatlaunch bridges_not_in_HAZUS	Point Point	Count	1	100.0	100	100	3,000		ŀ	l	
			Count		25.0	4,000	1.000					

	Commercial-Professional - Technical S		Count	1	100.0 38.0	531 115	531 44	0 71				
	Commercial-Retail Trade Delta Roads PBSJ Minor Roads	Point Linear	Count Length (ft)	14,293	25.0	2,859	715	2,144				
	Gas oil wells	Point	Count	14,2,33	0.0	2,000	0	2,1,1	1			
	Residential - Manuf. Housing	Point	Count	3	100.0	71	71	0				
	Residential - Single Family Dwelling	Point	Count	17	48.6	3,677	1,788	1,889	ŀ			
	transin_ca	Linear	Length (ft)	27,721	0.0	8,925	0	8,925	4,248	4,960	236	11,069
Byron_Tract 3		Point	Count	1	28.0	804	225	579		I		
	Commercial-Retail Trade	Point	Count	1	18.0	253	46	207				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	3,543 107	25.0 29.3	709 27,429	177 8,023	531 19,406	8,471	20,192	4,490	531
Carba Hana Treet d	Residential - Single Family Dwelling	Point	Count (ff)	2,004	25.0	661	165	496	0,471	20,192	4,430	331
Cache_Haas_Tract 1	Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads	Linear Linear	Length (ft) Length (ft)	95,936	25.0	19,187	4,797	14,390				
	gas oil production fields	Point	Area	1,351	0.0	15,107	4,737	14,330		l l		
	Gas oil wells	Point	Count	39	0.0		ő	- 0		l		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500		ı		
	NG Pipelines	Linear	Length (ft)	16,802	0.0	3,192	Ö	3,192	1			
	NG_Wells	Point	Count	1	0.0	-	0	O				
	Residential - Manuf. Housing	Point	Count	1	100.0	44	44	0	- 1			
	Residential - Single Family Dwelling	Point	Count	9	39.1	1,371	536	835	1			
	transin_ca	Linear	Length (ft)	15,185	0.0	4.889	0	4,889	6,043	2,335	29	22,968
Cache_Haas_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	8,532	25.0	1,706	427	1,280				
	gas_oil_production_fields	Point	Area	474	0.0		0	0				
	Gas_oit_wells	Point	Count	15 1	0.0	-	0	0				
	NG_Wells	Point	Count	1	100.0	17	17					
	Residential - Manuf. Housing Residential - Single Family Dwelling	Point Point	Count Count	4	100.0	775	775					
	transin ca	Linear	Length (ft)	567	0.0	183	7,75	183	1,219	o	a	1,462
Canal Ranch	Commercial-Professional - Technical S	Point	Count	1	100.0	727	727	0	1,2.0	-		1,102
Canal Ranch	Commercial-Retail Trade	Point	Count	1	42,0	477	200	277		I		
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	4,555	25.0	911	228	683				
	gas oil production fields	Point	Aréa	170	0.0	- 1	0	0	į			
	Gas_oil_wells	Point	Count	5	0.0	-	0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	•	l i		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	1,411	25.0	466	116	349				
	NG_Pipelines	Linear	Length (ft)	1,065	0.0	202	0	202				
	Religion - Churches and Other Non-pro		Count	1	19.0 100.0	1,258	239	1,019	0.000	2,796	c.c	4 005
Chinas Island	Residential - Manuf. Housing	Point	Count Count	2	0.0	53	53 0	0	2,063	2,796	55 0	1,235
Chipps_Island	Gas_oil_wells boatlaunch	Point			100.0	100	100	0	- V	٩	U	U U
Clifton Court Forebay Water		Point Point	Count Count	1	100.0	197	197					
	Commercial-Retail Trade	Point	Count	1	47.0	43	20	23				
	Residential - Single Family Dwelling	Point	Count	2	100.0	343	343	20				
	transin ca	Linear	Length (ft)	9,886	0.0	3,183	Ö	3,183	660	23	1	3,183
Coney_island	Residential - Manuf. Housing	Point	Count	9	100.0	305	305	0				
	Residential - Singlé Family Dwelling	Point	Count	60	100.0	12,858	12,858	0	13,163	0	0	0
Deadhorse Island	gas_oil_production_fields	Point	Area	199	0.0		0	0				
	Gas_oii_wells	Point	Count	3	0.0	-	0	0	1	i		
	NG_Pipelines	Linear	Length (ft)	3,862	0.0	734	0	734	1			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	6	6			اء		
B1	Residential - Single Family Dwelling	Point	Count	1	100.0	170	170	0	176	0	0	734
Decker_Island	NG_Pipelines	Linear	Length (ft)	8,044	0.0	1,528	0	1,528	0		0	1,528
Discovery_Bay	boatlaunch	Point	Count	1	100.0	100	100	0		- 1		
	Commercial-Banks Commercial-Entertainment and Recrea	Point Point	Count Count	1 8	22.0 22.0	574 6,472	126 1,424	448 5,048		l		
	Commercial-Entertainment and Recrea	Point	Count	- °	20.0	1,401	280	1,121	ļ			
	Commercial-Professional - Technical S	Point	Count	1	44.0	7,919	3,484	4,435	. 1	I		
	Commercial-Professional - reclinical s	Point	Count		30.0	3.800	1,140	2,660	1	l		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	96,919	25.0	19,384	4,846	14,538	1			
							.,.,.	,_ 30				
	hc_ambulatory	Point	Count	5	17.0		0	·01	1	i		
		Point Linear	Count Length (ft)	5 6,674	17.0 25.0	2,202	0 551	0 1,652	1			

	Residential - Manuf. Housing	Point	Count	1	100.0	109	. 109	0	į	1	1	
	Residential - Single Family Dwelling	Point	Count	2,775	43.6	714,249	311,591	402,658	1	ı	1	
	Schools_HAZUS_SDURS	Point	Count	1	20.0	590	118	472	- 1			
	water_trans	Point	Count	1	0.0	-	0	0	324,329	417,511	18,566	
gbert_Tract	Delta_Roads_PB\$J_Minor_Roads	Linear	Length (ft)	12,752	0.0	2,550	0	2,550				
	gas_oil_production_fields	Point	Area	861	0.0	-	0	0				
	Gas_oii_wells	Point	Count	28	0.0	-	0	0			1	
	NG_Pipelines	Linear	Length (ft)	4,439	0.0	1,065	. 0	1,065	1			
	NG_Wells	Point	Count	3	0.0	-	Ò	0	1		Į.	
	Residential - Manuf. Housing	Point	Count	1	100.0	15	15	0	- 1			
•	Residential - Single Family Dwelling	Point	Count	4	100.0	690	690	0	1			
	transin_ca	Linear	Length (ft)	2,861	0.0	921	0	921	705	0	0	
Elk_Grove 1	bridges_not_in_HAZUS	Point	Count	4	25.0	4,000	1,000	3,000				
	Commercial-Entertainment and Recrea	Point	Count	2	22.0	1,900	418	1,482				
	Commercial-Medical - Office Clinic	Point	Count	1	20.0	716	143	573	1		ŀ	
	Commercial-Personal and Repair Serv	Point	Count	2	28.0	1,282	359	923				
	Commercial-Professional - Technical S	Point	Count	1	44.0	902	397	505				
	Commercial-Retail Trade	Point	Count	1	30.0	680	204	476			ŀ	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	13,723	25.0	4,529	1,132	3,397	- 1		į	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	24,265	25.0	4,853	1,213	3,640	1	1	j	
	gas_oil_production_fields	Point	Area	41	0.0		Ô	0	- 1			
	Gas_oil_wells	Point	Count	6	0.0	-	0	0		1		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,190	25.0	1,383	346	1,037			ļ	
	Industrial - High Technology	Point	Count	1	33.0	6,349	2,095	4,254			i	
	NG_Pipelines	Linear	Length (ft)	6,580	0.0	2,138	0	2,138				
	NG Wells	Point	Count	1	0.0		0	0				
	Rail 1000 nodes	Point	Count	1	0.0	- 1	o	0				
	Rail HAZUS SDURS	Linear	Length (ft)	4,978	25.0	1,419	355	1,064	ł			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	45.5	220	100	120			1	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	45.5	297	135	162	1			
	Residential - Single Family Dwelling	Point	Count	278	43.6	56,209	24,521	31,688	1		i	
	Substation CA	Point	Count	1	25.0	1,000	250	750	1			
	transin ca	Linear	Length (ft)	8,472	0.0	2,086	0	2,086	34,168	48,432	583	
mpire_Tract	boatlaunch	Point	Count	1	100.0	100	100	0		12(12)		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	36,993	25.0	7,399	1,850	5,549				
	Gas oil wells	Point	Count	4	0.0	.,000	0	0,0,0	1	l	i	
	Residential - Manuf. Housing	Point	Count	3	100.0	127	127	ŏ	1	į]	
	Residential - Single Family Dwelling	Point	Count	2	100.0	200	200	Ö	2,277	o	ol	
abian_Tract	air_trans	Point	Count	1	0.0		- 0	0				
	boatlaunch	Point	Count	1	100.0	100	100	ŏ	1			
	Commercial-Retail Trade	Point	Count	- 1	42.0	128	54	74	i i			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	4,032	25.0	1,331	333	998	1	ļ		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	51,951	25.0	10,390	2,598	7,793	<u>l</u>			
	Gas oil wells	Point	Count	51,957	0.0	10,000	2,000	1,735	<u>l</u>	ŀ		
	NG_Pipelines	Linear	Length (ft)	1,817	0.0	345		345	1			
	Residential - Duplex	Point	Count	1,017	100.0	558	558	343	l	ļ	į	
	Residential - Institutional Dormitory	Point	Count	 	30.0	3,221	966	2,255	<u>l</u>	j		
	Residential - Manuf. Housing	Point	Count	7	100.0	266	266	2,200	1	I		
	Residential - Manui, Housing Residential - Single Family Dwelling	Point	Count	15	100.0	2,235	2,235	<u> </u>	l	1	l	
	transin ca	Linear	Length (ft)	9,642	0.0	2,235	2,235	2,374	7,109	2,329	27	
ay Island	Delta Roads PBSJ Minor Roads	Linear			25.0		6		1,105	2,329	0	
			Length (ft)	112		22		17	0	· · · · · · · · · · · · · · · · · · ·	υ	
Glanville_Tract	Commercial-Retail Trade	Point	Count	1	30.0		. 500	1	<u>l</u>		1	
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	6,861	25.0	2,264	566	1,698	J	1	[
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	29,569	25.0	5,914	1,478	4,435	I	1]	
	gas_oil_production_fields	Point	Area	128	0.0		0	0	į.	1	j	
	Gas_oil_wells	Point	Count	, 8	0.0		0	0	[1		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	4	25.0	8,000	2,000	6,000	1	- 1	1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	6,208	25.0	2,049	512	1,536		Ì	1	
	NG_Pipelines	Linear	Length (ft)	383	0.0	124	. 0	124	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,114	25,0	1,173	293	879	1	.	ļ	
	Residential - Manuf. Housing	Point	Count		100.0	48	48			· ·	1	

	Residential - Multi-Dwellings - 10 to 19	Point	Count	7	45.5	19	9	10			1	
	Residential - Multi-Dwellings - 50+ uni	t Point	Count	1	45.5	9	4	5				
	Residential - Single Family Dwelling	Point	Count	6	43.6	1,160	506	654	5,417	6,670	121	8,6
liole_District	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	7,030	25.0	2,320	580	1,740				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	900	25.0	180	45	135	- 1			
	Hwy HAZUS SDURS	Linear	Length (ft)	267	25.0	88	22	66	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	7,101	25.0	2,024	506	1,518	1			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	7	7	0			l l	
	Residential - Single Family Dwelling	Point	Count	4	100.0	807	807	0				
	transin_ca	Linear	Length (ft)	7,488	0.0	1,844	0	1,844	1,967	0	0	5,3
Grand Island	boatlaunch	Point	Count	1	100.0	100	100	0				
	Commercial-Professional - Technical S	Point	Count	1	100.0	935	935	0			l l	
	Commercial-Retail Trade	Point	Count	1	100.0	1,194	1,194	0		1		
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	3,301	25.0	1,089	272	817			Į.	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	127,834	25.0	25,567	6,392	19,175		1		
	gas_oil_production_fields	Point	Area	760	0.0	-	0	0			ŀ	
	Gas_oil_wells	Point	Count	34	0.0	-	0	0		1		
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	65,548	25.0	21,631	5,408	16,223	ŀ	1	1	
	Industrial - Light	Point	Count	2	100.0	4,435	4,435	0	ŀ		l	
	NG_Pipelines	Linear	Length (ft)	11,501	0.0	2,185	O)	2,185			1	
	NG_Wells	Point	Count	1	0.0	- 1	0	0		1	1	
	Residential - Duplex	Point	Count	3	100.0	1,032	1,032	0	j	1	l	
	Residential - Manuf. Housing	Point'	Count	22	100.0	768	768	0			ł	
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	1,472	1,472	0	1		1	
	Residential - Multi-Dwellings - 50+ uni	t Point	Count	1	100.0	391	391	0		1	1	
	Residential - Single Family Dwelling	Point	Count	217	100.0	38,544	38,544	0		i	1	
	transin ca	Linear	Length (ft)	13,185	0.0	3,246	0	3,246			1	
	US Cell Towers	Point	Count	1	0.0	250	0	250	61,943	3,250	22	41,6
lastings_Tract 1	Commercial-Retail Trade	Point	Count	1	47.0	3	- 1	2	·			
	gas oil production fields	Point	Area	45	0.0	-	o o	0	1	2	o	
lastings_Tract 2	Commercial-Retail Trade	Point	Count	1	100.0	53	53	0				k
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	13,005	25.0	2,601	650	1,951	l			
	gas_oil_production_fields	Point	Area	363	0.0		Ó	0	1			
	Gas oil wells	Point	Count	28	0.0		O	0	l	1		
	NG Wells	Point	Count	3	0.0	-	Ó	0	l	i i	1	
	Residential - Manuf. Housing	Point	Count	1	100.0	25	25	0	ŀ	- 1	1	
	Residential - Single Family Dwelling	Point	Count	7	100.0	1,175	1,175	0	ŀ			
	transin ca	Linear	Length (ft)	4,432	0.0	1,427	0	1,427	1,903	ol	0	3,3
Holland Land	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	119	25.0	39	10	29				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	196	25.0	39	10	29	1		1	
	Gas oil wells	Point	Count	2	0.0				i		1	
	Hwy HAZUS SDURS	Linear	Length (ft)	9,792	25.0	3,231	808	2,424	1	ı	1	
	Petroleum Pipelines	Linear	Length (ft)	96	0.0	20	000	20				
	Residential - Single Family Dwelling	Point	Count	1	100.0	192	192	20	1	l	l	
	transin ca	Linear	Length (ft)	78	.0.0	19	192	19	1,019	o	٥	2,5
Holland Tract	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	41,410	25.0	8.282	2,070	6,211	.,	-		2,0
	Gas oil wells	Point	Count	41,410	0.0	9,202	2,070	0,211	1			
	Hwy Bridge HAZUS SDURS	Point	Count	7	25.0	2,000	500	1,500			1	
	Residential - Manuf. Housing	Point	Count	2	100.0	2,000	64	1,300	1	į.	l	
	Residential - Single Family Dwelling	Point	Count	5	100.0	1,059	1,059		3,693	1,500	30	6,2
lonker_Bay_Club	gas oil production fields	Point	Area	46	0.0	1,009	1,059	0	3,033	1,000		0,2
.o.mei_pay_olub	NG Pipelines	Linear	Length (ft)	4,395	0.0	835	0	835	1			
	Petroleum Pipelines	Linear		4,395	0.0	1,006	- 0	1,006			1	
	Residential - Single Family Dwelling	Point	Length (ft) Count	4,793	37.0	1,006	65	112	65	112	6	1,8
lotablice Tract 1					100.0	100			00	114		1,8
lotchkiss_Tract 1	boatlaunch	Point Point	Count	 	47.0		100 670	0 756		į.	i	
	Commercial Potest Trade		Count	 		1,426			1	į	ļ	
	Commercial-Retail Trade	Point	Count	24 027	34.0	165	56	109	1	į	1	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	34,037	25.0	6,807	1,702	5,106	1	İ	1	
	gas_oil_production_fields	Point	Area	46	0.0		- 0	0	1		J	
	Gas_cil_wells Hwy_Bridge_HAZUS_SDURS	Point	Count	15	0.0 25.0	2,000	500	1,500	- 1	İ	į.	
		Point	Count	1								

	NG Pipelines	Linear	Length (ft)	12,515	0.0	2,378	0	2,378			I	1
	NG Wells	Point	Count	12,515	0.0	2,370	0	2,370	1			1
	Residential - Duplex	Point	Count	4	48.0	1,210	581	629	1			
	Residential - Manuf. Housing	Point	Count	69	100.0	2,448	2,448	020	j			
	Residential - Single Family Dwelling	Point	Count	220	46.6	40,001	18,650	21,351	j		l	1
	Residential - Triplex - Quads	Point	Count	2	48.0	452	217	235			İ	
	transin_ca	Linear	Length (ft)	14,067	0.0	4,529	0	4,529	24,924	24,579	847	12,013
Hotchkiss_Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,378	25.0	876	219	657				
11010111130_114012	gas oil production fields	Point	Area	633	0.0		0	0	1			
	Gas oil wells	Point	Count	3	0.0	_	ó	0	1			
	NG Pipelines	Linear	Length (ft)	2,370	0.0	450	0	450	219	0	0	1,107
Jersey_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	30,773	25.0	6,155	1,539	4,616		· ·· ··		
	gas oil production fields	Point	Area	536	0,0	-	Ö	O	l			
	Gas oil wells	Point	Count	12	0.0		0	0				
	NG_Pipelines	Linear	Length (ft)	5,421	0.0	3,388	0	3,388				
	NG Wells	Point	Count	3	0.0	-	0	0				
	Residential - Manuf. Housing	Point	Count	1	100.0	35	35	0				
	Residential - Single Family Dwelling	Point	Count	3	100.0	579	579	Ó		İ		l
•	solid_waste_facilities	Point	Count	1	25.0	-	0	0				1
	transin_ca	Linear	Length (ft)	15,918	0.0	5,125	0	5,125	2,153	o	0	13,129
Jones_Tract-Upper_and_Lower	bridges_not_in_HAZUS	Point	Count	1	0.0	1,000	0	1,000				
	Commercial-Professional - Technical S	Point	Count	1	100.0	239	239	0	ŀ			
	Commercial-Retail Trade	Point	Count	1	100.0	44	44	0	J			I
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	81,999	25.0	16,400	4,100	12,300	1			Ī
	gas_oil_production_fields	Point	Area	106	0.0		0	0				
	Gas_oil_wells	Point	Count	12	0.0	-	0	0				
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	5,018	0.0	1,054	0	11,054	ŀ			
	mokelumne_aqueduct_pipe	Linear	Length (ft)	14,985	0.0	74,924	5,694	0				
	NG_Pipelines	Linear	Length (ft)	15,032	0.0	24,202	0	24,202	1			
	NG_Storage	Point	Count	1	0.0	-	0	0	1		,	
	NG_Wells	Point	Count	1	0.0		0	0	1			
	Rail_Bridge_HAZUS_SDURS	Point	Count	1	0.0	1,000	0	1,000	- 1			
	Rail_HAZUS_SDURS `	Linear	Length (ft)	5,678	100.0	1,618	8,000	0	- 1		i	
	Residential - Manuf. Housing	Point	Count	3	100.0	76	76	0				
	Residential - Single Family Dwelling	Point	Count	4	100.0	482	482	0	18,635	2,000	23	37,556
Kasson_District	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,696	25.0	339	85	254	1			
	Gas_oil_wells	Point	Count	4	0.0		0	0	1			
	Residential - Single Family Dwelling	Point	Count	10	43.6	1,419	619	800				i
	transin_ca	Linear	Length (ft)	9,505	0.0	2,340	0	2,340	704	800	37	2,595
King_island	boatlaunch	Point	Count	1	100.0	100	100	0	1			
	Commercial-Entertainment and Recrea	Point	Count	1	100.0	463	463	0				
	Commercial-Professional - Technical S		Count	1	100.0	488	488	0	1			
	Commercial-Refail Trade	Point	Count	1	100.0	3,544	3,544	0	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	33,844	25.0	6,769	1,692	5,077				
	gas_oil_pròduction_fields	Point	Area	151	0.0	,	0	0				
	Gas_oil_wells	Point	Count	6	0.0	4 000	74.000	0.000				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	NG_Wells	Point Point	Count	2	100.0	123	123	<u> </u>				
	Residential - Duplex		Count	1	100.0		2,364	<u>\</u>				
	Residential - Institutional Dormitory	Point	Count	42	100.0	2,364						
	Residential - Manuf, Housing	Point Point	Count Count	42 17	100.0	1,405	1,405	U				
	Residential - Single Family Dwelling water trans	Point	Count	1/1	0.0	2,211	2,211	<u>0</u>	12 200	3,000	73	5,077
Libby_McNeil_Tract 1		Point			41.0		220	327	13,390	3,000	/3	3,077
PIDDA MICHAEIT LISEE I	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count Count		26.0	555 668	228 174	327 494				1
	Communication HAZUS SDURS	Point	Count		100.0	118	118	494 h	I			
				5,110	25.0	1.686		4 200	Ì			
	Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads	Linear Linear	Length (ft)				422	1,265				
			Length (ft)	10,178	25.0 0.0	2,036	509	1,527	j			
	gas_oil_production_fields Gas_oil_wells	Point Point	Area ` Count	143	0.0		0	0	į			
	Residential - Duplex	Point	Count	4	43.0	1,164	501	663	1			
	Residential - Duplex Residential - Manuf. Housing	Point	Count	2	100.0	81	81	003	1			· ·
	r cordonial - Manus, Housing	i Allır	COULT		100.0	01	01		- 1		l	

	Residential - Single Family Dwelling	Point	Count	41	39.1	7,404	2,897	4,507	4,928	5,992	1,035	2,79
Libby_McNeil_Tract 2	boatlaunch	Point	Count	1	100.0	100	100	0		-		
	Commercial-Retail Trade	Point	Count	1	30.0	1	0	1	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	345	25.0	69	17	52	ŀ			
	gas_oil_production_fields	Point	Area	42	0.0	•	0	0				
	Residential - Single Family Dwelling	Point	Count	4	43.6	688	300	388	418	389	61	52
iberte Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	11,521	25.0	2,304	576	1,728	ŀ			
	gas_oil_production_fields	Point	Area	470	0.0		0	0	ŀ			
	Gas_oil_wells	Point	Count	18	0.0	2,000	500	1 500	i			
	Hwy_Bridge_HAZUS_SDURS NG_Pipelines	Point Linear	Count Length (ft)	21,289	25.0 0.0	2,000 4,045	500	1,500 4,045	1,076	1,500	21	5,773
incoln Village Tract	Commercial-Entertainment and Recrea	Point	Count	21,209	18.0	4,338	781	3,557	1,076	1,500	21	5,773
ilicolii_village_i ract	Commercial-Professional - Technical S		Count	1	38.0	3,142	1,194	1,948	1			
	Commercial-Retail Trade	Point	Count	- i	23.0	4,761	1,095	3,666				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	123,035	25.0	24,607	6,152	18,455	i			
	Hwy Bridge HAZUS SDURS	Point	Count	120,000	25.0	8,000	2,000	6,000				
	Hwy HAZUS SDURS	Linear	Length (ft)	4,210	25.0	1,389	347	1,042				
	Religion - Churches and Other Non-pro	Point	Count	1	13.0	1,948	253	1,695				
	Residential - Duplex	Point	Count	47	38.5	12,104	4,660	7,444	i			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	38.5	11,552	4,448	7,104	į			
	Residential - Multi-Dwellings - 5 to 9 ur	Point	Count	20	38.5	32,750	12,609	20,141	į			
		Point	Count	2	38.5	35,918	13,828	22,090				
	Residential - Single Family Dwelling	Point	Count	2,835	37.0	518,455	191,828	326,627	İ			
	Residential - Triplex - Quads	Point	Count	53	38.5	14,315	5,511	8,804	l l			
	Schools HAZUS SDURS	Point	Count	9	7.0	5,310	372	4,938				
	water trans	Point	Count	1	0.0		0	0	245,078	414,014	17,758	19,49
sbon_District	airport points	Point	Count	1	25.0	-	0	0		· · · · ·		
- ,	Airports_HAZUS_SDURS	Point	Count	1	25.0	6,431	1,608	4,823				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	20,168	25.0	6,655	1,664	4,992	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	18,199	25.0	3,640	910	2,730				
	gas oil production fields	Point	Area	20	0.0	· -	0	0				
	Gas_oil_wells	Point	Count	6	0.0	-	0	0				
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,754	25.0	1,355	339	1,016	1			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	127	127	0	1			
	Residential - Single Family Dwelling	Point	Count	22	100.0	4,002	4,002	0	1			
	Runway_HAZUS_SDURS	Point	Count	1	25.0	36,674	9,169	27,506				
	transin_ca	Linear	Length (ft)	4,742	0.0	1,168	0	1,168				
	US_Cell_Towers	Point	Count	1	0.0	250	0	250	17,818	32,579	561	9,90
ttle Holland Tract	gas_oil_production_fields	Point	Area	88	0.0	-	0	0	.1	_	_	
	Gas_oil_wells	Point	Count	2	0.0	-	0	0	0	0	0	
ttle_Egbert□_Tract	Commercial-Professional - Technical S		Count	1	100.0	1	1	0	ŀ			
	Commercial-Retail Trade	Point	Count	1	100.0	1		0	- 1			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	150	25.0	49	12	37	l			
	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	10,956	25.0	2,191	548	1,643	l			
	gas_oil_production_fields	Point	Area	895	0.0		0		1			
	Gas oil wells	Point -	Count	21	0.0		- 0	4 500	ł			
	Hwy_Bridge_HAZUS_SDURS Hwy_HAZUS_SDURS	Point	Count	1 E 402	25.0 25.0	2,000	500	1,500	1			
	NG Pipelines	Linear Linear	Length (ft)	5,495 8,586	25.0 0.0	1,813 2,061	453	1,360 2,061	1			
	NG Wells	Point	Length (ft) Count	0,386	0.0	2,001	- ×	2,001				
	Residential - Duplex	Point	Count	4	100.0	122	122		1			
	Residential - Duplex Residential - Manuf. Housing	Point	Count	' ' '	100.0	130	130		1			
		Point	Count	33	100.0	5,934	5,934		7,701	1,500	29	5,10
wer_Roberts_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,657	25.0	931	233	698	7,701	1,300	29	3,10
	Gas oil wells	Point	Count	4,007	0.0	931	233	030	l			
	Residential - Manuf. Housing	Point	Count	- 1	100.0	20	20	<u> </u>	I			
		Point	Count	1	46.6	125	58	67	311	67	15	69
ndeville_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	26,062	25.0	5,212	1,303	3,909	311	- 07	10	08
	Gas oil wells	Point	Count	20,002	0.0	3,212	1,303	3,808	1,303	0	0	3,90
Cormack_Williamson_Tract	Communication_HAZUS_SDURS	Point	Count	7	100.0	236	236	9	1,303	V	U	3,90
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,822	25.0	2,964	741	2,223	i			
	gas oil production fields	Point	Area	14,822	25.0	2,904	741	2,223	j			
	gas_on_production_nerds	r offit	AI Ca	000	0.0		<u> </u>	<u> </u>	1			

												•
	gas_oil_production_fields	Point	Area	602	0.0		0	0	1			
	Gas_oil_wells	Point	Count	18	0.0		0	0			٠.	
	NG_Pipelines	Linear	Length (ft)	4,699	0.0	893	0	893	977	0		3,11
McDonald_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	52,770	25.0	10,554	2,639	7,916	i			
	Gas_oil_wells	Point	Count	48	0.0		0	0	1			•
	NG_Pipelines	Linear	Length (ft)	5,235	0.0	1,597	0	1,597	7.000	_		
	Residential - Institutional Dormitory	Point	Count	1	100.0	4,753	4,753	U	7,392	0	(9,51
McMullin_Ranch-River_Junction	Commercial-Retail Trade	Point	Count	1	34.0	30	10	20	l l			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	14,242	25.0	4,700	1,175	3,525	ŀ			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	17,076	25.0	3,415	854	2,561	ľ			
	Gas_oil_wells	Point	Count	1	0.0	-	0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	- 1			l
	NG_Pipelines	Linear	Length (ft)	5,372	0.0	1,397	0	1,397	- 1			
	Residential - Manuf. Housing	Point	Count	4	100.0	123	123	.0				
	Residential - Single Family Dwelling	Point	Count	35	46.6	5,765	2,688	3,077				
	transin_ca	Linear	Length (ft)	17,210	0.0	4,237	0	4,237	5,350	4,597	98	11,72
Medford_island	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	28,314	25.0	5,663	1,416	4,247				
	Residential - Institutional Dormitory	Point	Count	1	100:0	1,756	1,756	0	3,172	0	(4,24
Merritt Island	Commercial-Professional - Technical S	Point	Count	1	100.0	282	282	0				
	Commercial-Retail Trade	Point	Count	1	100.0	62	62	0	ŀ	1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Lèngth (ft)	20,405	25.0	6,734	1,683	5,050	ŀ	1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	54,368	25.0	10,874	2,718	8,155		1		
	gas_oil_production_fields	Point	Area	159	0.0		0	0				1
	Gas_óil_wells	Point	Count	11	0.0		O,	0		i		
	Residential - Manuf. Housing	Point	Count	3	100.0	135	135	0				
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	90	90	0				
	Residential - Single Family Dwelling	Point	Count	57	100.0	9,891	9,891	0	14,862	0	(13,20
Middle Roberts Island	boatlaunch	Point	Count	3	100.0	300	300	0				
	Commercial-Personal and Repair Serv	Point	Count	1	43.0	613	264	349	ŀ			l
	Commercial-Professional - Technical S	Point	Count	1	100.0	358	358	0	ŀ			
	Commercial-Retail Trade	Point	Count	1	47.0	84	39	45	·			
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	12,305	25.0	4,061	1,015	3,045	1			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	123.062	25.0	24.612	6.153	18,459				i
	gas oil production fields	Point	Area	884	0.0	-	0	O		ľ		
	Gas oil wells	Point	Count	29	0.0	-	O O	o				
	gas_pipeline_kinder_morgan_LS 9	Linear	Length (ft)	8,230	0.0	1,728	0	11,728	1:			
	Hwy Bridge HAZUS SDURS	Point	Count	1	25.0	2,000	500	1,500		ļ		
	Hwy HAZUS SDURS	Linear	Length (ft)	18,586	25.0	6,133	1,533	4,600				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	22,309	0.0	111,543	8.477	0	i			
	NG_Pipelines	Linear	Length (ft)	17,099	0.0	3,249	0	3,249]		
	NG Wells	Point	Count	12	0.0	-	0	0		1		
	Petroleum Pipelines	Linear	Length (ft)	3,641	0.0	765	0	765				
	Rail HAZUS SDURS	Linear	Length (ft)	7,982	25.0	2.275	569	1,706		1		
	Residential - Duplex	Point	Count	4	100.0	1,216	1,216	0		l		
	Residential - Institutional Dormitory	Point	Count	1	34.0	6,424	2,184	4,240	l l	1		
	Residential - Manuf. Housing	Point	Count	19	100.0	638	638	0	1	1		
		Point	Count	58	100.0	8,873	8,873	<u> </u>	l l			
	solid waste facilities	Point	Count	1	25.0		70	<u></u>	- 1	l		I
	transin ca	Linear	Length (ft)	42,538	0.0	10,473	ō	10,473	32,120	6,134	34	44,02
Netherlands 1		Linear	Length (ft)	430	25.0	86	21	64		5,154		17,02
	gas oil production fields	Point	Área	199	0.0		~~~					l
	Gas oil wells	Point	Counit	9	0.0		- 6		- 1			
	Hwy HAZUS SDURS	Linear	Length (ft)	9,046	25.0	2,985	746	2,239	1	Į		1
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	13	13	2,200	1	Į		1
*	Residential - Single Family Dwelling	Point	Count		100.0	413	413		1,194		,	2,30
letherlands 2	air trans	Point	Count	4	0.0	713	413	- 0	1,134	- V		2,30
retreriailus 2					100.0			<u> </u>	ı			1
		Point	Count			10	10	U	1			1
	Commercial-Retail Trade	Point	Count	40.00=	100.0	468	468	0	l			1
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	12,897	25.0	4,256	1,064	3,192		1		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	170,540	25.0	34,108	8,527	25,581	İ	ļ		I
	Fire_Stations_HAZUS_SDURS gas_oil_production_fields	Point	Count	1	100.0	708	708	0]	İ		
		Point	Area	281	0.0	_	OI.			l l		

									_	_	_	
	Gas_oil_wells	Point	Count	27	0.0	-	0	0	1			
	Hazmat_HAZUS_SDURS	Point	Count	1	0.0		0	0	i	1		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	8,796	25.0	2,903	726	2,177				
	Rail_1000_nodes	Point	Count	2	0.0	•	0	0	i i			
	Rail_HAZUS_SDURS	Linear	Length (ft)	7,594	25.0	2,164	541	1,623				
	Residential - Manuf. Housing	Point	Count	4	100.0	168	168	- 0		1		
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	591	591	0		1		
	Residential - Single Family Dwelling	Point	Count	153	100.0 11.0	27,394	27,394	1.050	40.007	0.550	4	00.53
	Schools_HAZUS_SDURS	Point	Count	2		1,180	130	1,050	40,827	2,550	17	32,57
New_Hope_Tract	boatlaunch	Point	Count	2	100.0	200	200	0	1	1		
	Commercial-Professional - Technical S	Point	Count	1	47.0	122	57	65		i i		
	Commercial-Retail Trade	Point	Count	1	34.0	399	136	263		1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	9,881	25.0	3,261	815	2,446				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	17,198	25.0	3,440	860	2,580		1		
	gas_oil_production_fields	Point	Area	791	0.0		0	- 0				
	Gas_oil_wells	Point	Count	24	0.0		0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1 1 1 1 1	25.0	2,000	500	1,500	ļ			
	Hwy HAZUS SDURS	Linear	Length (ft)	4,295	25.0	1,417	354 0	1,063	ł		l	
	NG_Pipelines NG Wells	Linear	Length (ft)	13,563	0.0	2,577	0	2,577	ł			
		Point	Count	5,103	25,0	1,454	364		i			
	Rail HAZUS SDURS	Linear	Length (ft)					1,091	1			
	Residential - Manuf, Housing	Point Point	Count	33 37	100.0 46.6	1,125 5,264	1,125 2,454	-	ł			
	Residential - Single Family Dwelling US Cell Towers	Point	Count	37	0.0	5,264	2,454	2,810 500	6,865	5,138	82	9,75
Onwood Troot		Point			100.0	384		500	0,000	5,130	02	9,7
Drwood_Tract	Commercial Potest Trade		Count	 	100.0	27	384 27	0	1			
	Commercial-Retail Trade	Point	Count	13,367	25.0	2,673		2,005	1			
	Delta Roads PBSJ Minor Roads Gas oil wells	Linear Point	Length (ft) Count	19,307	25.0	2,013	668 0	2,005	1	l		
	gas_pipeline_kinder_morgan_LS_9	Linear		14,840	0.0	3,116	0	13,116	l	l	l	
	mokelumne_aqueduct_pipe	Linear	Length (ft)	40,546	0.0	202,729	15,407	13,110	j]	l	
	NG Pipelines	Linear	Length (ft)	6,469	0.0	1,811	15,407	1,811]	j	l	
	Residential - Manuf. Housing	Point	Length (ft) Count	0,409	100.0	22	22	1,011	1	Ī		
	Residential - Single Family Dwelling	Point	Count	87	100.0	22,264	22.264	· · · · · ·	J			
	transin ca	Linear	Length (ft)	8,083	0.0	2,602	22,264	2,602	38,773	٥	٥	9,53
Palm_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	24,442	25.0	4.888	1,222	3,666	30,113			9,55
am_11461	gas oil production fields	Point	Area	100	25.0	4,000	1,222	3,000	j	- 1	- 1	
	Gas_oil_wells	Point	Count	100	0.0		0	<u> </u>	J	1	l	
	NG Pipelines	Linear	Length (ft)	10,249	0.0	2,870	01	2,870	I	1	l	
	Rail HAZUS SDURS	Linear	Length (ft)	12,627	25.0	3,599	900	2,870	l	1	l	
	Residential - Manuf, Housing	Point	Count	12,027	100.0	3,599	47	2,699	I]	
	Residential - Single Family Dwelling	Point	Count		100.0	1,978	1,978	0	J	1	1	
	transin ca	Linear	Length (ft)	5,169	0.0	1,664	1,976	1,664	4,147	o	o	10,89
Paradise Junction	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	2,573	25.0	849	212	637	1071			10,00
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	15,550	25.0	3,110	778	2,333		i	1	
	Gas oil wells	Point	Count	.5,550 A	0.0	3,113	01	2,333	l	i	1	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	7	25.0	6,000	1,500	4,500		l		
	Hwy HAZUS SDURS	Linear	Length (ft)	1,557	25.0	514	1,300	385	j	l	1	
	Rail HAZUS SDURS	Linear	Length (ft)	3,746	25.0	1,068	267	801	J	ŀ	į	
	Residential - Institutional Dormitory	Point	Count	4	23.0	16,213	3,729	12,484	1	l		
	Residential - Manuf. Housing	Point	Count		100.0	28	28	12,404	1		i	
	Residential - Multi-Dwellings - 10 to 19		Count	 	48.0	7	20	<u>-</u>	1	. .		
	Residential - Single Family Dwelling	Point	Count	10	46.6	1,462	682	780				
	Substation CA	Point	Count	1	25.0	1,000	250	750	l	ı	l	
	transin_ca	Linear	Length (ft)	11,558	0.0	2,846	230	2,846	7,577	18,518	583	7,00
escadero	Commercial-Professional - Technical S		Count	1,7,000	47.0	1,073	504	569	7,577	10,010		1,00
	Commercial-Professional - Technical S	Point	Count	1	34.0	1,073	59	114	I	1	[
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	2,697	25.0	890	222	667				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	40,157	25.0	8,031	2,008	6,024		1		
	Dona Nouso - Dog Millor Nosus					3,031			l	1		
	gas oil production fields	I Point	Area •	L L								
	gas_oil_production_fields Gas_oil_wells	Point Point	Area Count	9	0.0 0.0		0	0				

	L	In	10		25.0	0.000	4.500	4 500				i
	Hwy_Bridge_HAZUS_SDURS	Point	Count Length (ft)	14,226	25.0 25.0	6,000 4,695	1,500 1,174	4,500 3,521				
	Hwy_HAZUS_SDURS NG Pipelines	Linear Linear	Length (ft)	1,699	0.0	323	1,174	3,321	- 1			
	Petroleum Pipelines	Linear	Length (ft)	1,099	0.0	224	,	224	1			
	Rail HAZUS SDURS	Linear	Length (ft)	256	25.0	73	18	55				
	Residential - Manuf. Housing	Point	Count	7	100.0	267	267	0	1			
	Residential - Multi-Dwellings - 10 to 19		Count	1	48.0	82	39	43				
	Residential - Single Family Dwelling	Point	Count	35	46.6	6,439	3,002	3,437	İ			
	sewage treat	Point	Count	1	30.0	100,000	30,000	0				
	transin ca	Linear	Length (ft)	16,671	0.0	4,105	00,000	4,105	38,794	8,662	168	• 14,9
eter Pocket	gas_oil_production_fields	Point	Area	443	0.0	- 1,112	o	0				
0101 7 001101	Gas oil wells	Point	Count	5	0.0		o	0	1			
	NG Pipelines	Linear	Length (ft)	4,331	0.0	823	ő	823	1			
	NG Wells	Point	Count	2	0.0	-	ō	0	- 1			
	Residential - Single Family Dwelling	Point	Count	2	46.6	432	201	231	1			
	transin ca	Linear	Length (ft)	864	0.0	278	0	278	201	231	. 9	1.
co_Naglee_Tract	Commercial-Professional - Technical S	Point	Count	1	47.0	1,555	731	824				
	Commercial-Retail Trade	Point	Count	1	34.0	372	126	246	1			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	22,049	25.0	7.276	1.819	5,457				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	30,145	25.0	6,029	1,507	4,522	I	l l		
	Gas oil wells	Point	Count	7	0.0		0	0	- 1			
	Hazmat_HAZUS_SDURS	Point	Count	1	0.0		0	0	1			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	1	į		
	NG_Pipelines	Linear	Length (ft)	16,204	0.0	3,079	0	3,079		l		
	Rail_1000_nodes	Point	Count	1	0.0	-	0	0	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,786	25.0	794	199	596	ı	l		
	Residential - Manuf. Housing	Point	Count	2	100.0	143	143	0				
	Residential - Single Family Dwelling	Point	Count	68	46.6	14,274	6,655	7,619				
	Substation_CA	Point	Count	1	25.0	1,000	250	750				
	transin_ca	Linear	Length (ft)	17,024	0.0	4,191	0	4,191	1			
	Utilities	Pòint	Count	1	0.0	-	0	0	11,930	10,938	223	17,
erson_Tract	Commercial-Professional - Technical S	Point	Count	1	100.0	493	493					
	Commercial-Retail Trade	Point	Count	1	100.0	199 '	199	0		ŀ		
	Communication_HAZUS_SDURS	Point	Count	3	100.0	354	354	0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	8,519	25.0	2,811	703	2,108	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	68,367	25.0	13,673	3,418	10,255	l	•		
	Fire_Stations_HAZUS_SDURS	Point	Count	1	100.0	708	708	0				
	gas_oil_production_fields	Point	Area	149	0.0	-	0	0				
	Gas_oil_wells	Point	Count	10	0.0		0	0		Ť		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	11,721	25.0	3,868	967	2,901				
	Residential - Duplex	Point	Count	1	100.0	531	531	. 0				
	Residential - Manuf. Housing	Point	Count	8	100.0	297	297	0	I			
	Residential - Single Family Dwelling	Point	Count	79	100.0	10,824	10,824	0	l			
	Schools_HAZUS_SDURS	Point	Count	2	20.0	1,180	236	944				
	transin_ca	Linear	Length (ft)	4,868	0.0	1,199	0	1,199	19,730	3,944	51	16,
tsburg	Commercial-Personal and Repair Serv	Point	Count	1	16.0	1,114	178	936	1			
	Commercial-Professional - Technical S	Point	Count	1	28.0	522	146	376				
	Commercial-Retail Trade	Point	Count	1	18.0	625	113	513	j			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	6,213	25.0	2,050	513	1,538	I			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,125	25.0	825	206	619	I			
	Industrial - Construction	Point	Count	1	43.0	1,699	731	968	I			
	NG_Pipelines	Linear	Length (ft)	10,040	0.0	1,908	0	1,908	l	1		
	Petroleum Pipelines	Linear	Length (ft)	5,423	0.0	1,139	0	1,139	I			
	Port_HAZUS_SDURS	Point	Count	1	0.0	2,572	0	2,572	l	1		•
	Rail_1000_nodes	Point	Count	4	0.0	<u>.</u>	0	0	l	ļ		
	Rail_Bridge_HAZUS_SDURS	Point	Count	1	25.0	1,000	250	750	į	1		
	Rail_HAZUS_SDURS	Linear	Length (ft)	14,710	25.0	4,192	1,048	3,144	l	- 1		
	Residential - Duplex	Point	Count	4	28.5	1,365	389	976		1		
	Residential - Manuf. Housing	Point	Count	1		36	36	0			į	
	Residential - Multi-Dwellings - 10 to 19		Count Count	1	28.5 28.5	1,101 304	314 87	787 217	ŀ	i		
	Residential - Multi-Dwellings - 50+ unit											

	B-11-1-1 Oi-1-E-1 D-1	In. to t	10	07	20.0	40.005	5 440	40 477			1	
	Residential - Single Family Dwelling	Point	Count	97	29.3 28.5	18,625 970	5,448 276	13,177	Į.		_	
/	Residential - Triplex - Quads	Point	Count	4				694 750			`	
	Substation_CA	Point	Count	37,606	25.0	1,000 9,259	250 0					
e	transin_ca Utilities	Linear Point	Length (ft)	37,000	0.0 0.0	9,259	0	9,259	9,984	22,716	628	17,606
Propost Island		Linear		5,398	25.0	1,080	270	810	3,304	22,710	020	17,000
Prospect_island	Delta_Roads_PBSJ_Minor_Roads gas_oil_production_fields	Point	Length (ft) Area	300	0.0	1,000	270	0	į.			
	Gas oil wells	Point	Count	12	0.0		0	0				
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	1	1					
	Residential - Single Family Dwelling	Point	Count	2	100.0	448	448	-	719	ol	0	810
Quimby_Island	bridges_not_in_HAZUS	Point	Count	1	25.0	1,000	250	750				0,0
	Gas oil wells	Point	Count	1	0.0	1,000	200	0	1			
	Residential - Single Family Dwelling	Point	Count	1	100.0	84	84		334	750	57	0
RD 17 (Mossdale)	boatlaunch	Point	Count	3	100.0	300	300	0				
(bridges not in HAZUS	Point	Count	2	25.0	2,000	500	1,500				
	Commercial-Banks	Point	Count	1	15.0	273	41	232				
		Point	Count	1	35.0	1,356	475	881				
	Commercial-Retail Trade	Point	Count	1	20.0	569	114	455				
	Commercial-Wholesale Trade	Point	Count	1	16.0	1,758	281	1,477				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	7,373	25.0	2,433	608	1,825	1			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	107,689	25.0	21,538	5,384	16,153	1			
	gas_oil_production_fields	Point	Area	201	0.0	-	0	0	l			
	Gas_oil_wells	Point	Count	5	0.0		0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	6	25.0	12,000	3,000	9,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,936	25.0	1,959	490	1,469				
	Industrial - Heavy	Point	Count	2	22.0	4,483	986	3,497		i	i	
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,002	25.0	571	143	428				
	Residential - Duplex	Point	Count	1	32.0	232	74	158				
	Residential - Manuf. Housing	Point	Count	27	100.0	1,052	1,052	0				
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	32.0	122	39	83				
	Residential - Single Family Dwelling	Point	Count	870	32.6	175,045	57,108	117,937				
	Residential - Triplex - Quads	Point	Count	1	32.0	157	50	107				
	transin_ca	Linear	Length (ft)	43,438	0.0	10,695	0	10,695	70,646	135,326	1,660	30,570
Rindge_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	85,006	0.0	17,001	0	17,001				
	Gas_oil_wells	Point	Count	9	0.0		0	0				
	NG_Wells	Point	Count	4	0.0		0	0				
	Residential - Duplex	Point	Count	1	100.0	181	181	0				
	Residential - Manuf. Housing	Point	Count	2	100.0	83	83	0				
	Residential - Single Family Dwelling	Point	Count	4	100.0	534	534	0	700	0.50		47.004
	US_Cell_Towers	Point	Count	1	***	250	0	250	798	250	3	17,001
Rio_Blanco_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,927	25.0	585	146	439				
	Gas_oil_wells	Point	Count	1	0.0		0	- 0				
	Hwy_Bridge_HAZUS_SDURS Hwy_HAZUS_SDURS	Point	Count	1 050	25.0	2,000	500	1,500				
	transin ca	Linear	Length (ft)	4,253 17,492	25.0 0.0	1,404 4.307	351	1,053	007	4 500		5 700
Roberts_Island	boatlaunch	Linear	Length (ft)	17,492	0.0		0	4,307	997	1,500	57	5,798
		Point		1		100	0	100	0	100	58	
Rough_and_Ready_Island	air trans	Point	Count	1	0.0		0	- 0	1			
	Commercial-Entertainment and Recrea Commercial-Personal and Repair Serv	Point	Count	1	20.0	580	116	464				
	Commercial-Personal and Repair Serv		Count	1	25.0	1,081	270	811				
			Count		41.0	215	88	127				
	Commercial-Retail Trade Commercial-Wholesale Trade	Point Point	Count		26.0 22.0	656	171	485				
	Delta_Roads_PBSJ_Major_Roads	Linéar	Length (ft)	5,110	25.0	5,308 1,686	1,168	4,140 1,265				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	63,076	25.0	12,615	3,154	9,461	1			
	Gas oil wells	Point	Count	1	0.0	12,013	3,134	3,401	1			
	Government - General Services	Point	Count	11	17.0	13,444	2,285	11,159	1			
	Hazmat_HAZUS_SDURS	Point	Count	<u>-</u>	0.0	10,777	2,265	11,139	1			
	Industrial - Heavy	Point	Count	1	30.0	1,443	433	1,010	1			
	Petroleum Pipelines	Linear	Length (ft)	8,192	0.0	1,720	0	1,720				
	Rail 1000 nodes	Point	Count	5,132	0.0		ő	1,720	l	l		
	Rail HAZUS SDURS	Linear	Length (ft)	20,938	25.0	5,967	1,492	4,476	- 1	i		
	Residential - Duplex	Point	Count	2	43.0	576	248	328	1	- 1		
							240	520				

	Residential - Manuf. Housing	Point	Count	8	100.0	266	266	0	I		i	1
	Residential - Single Family Dwelling	Point	Count	13	39.1	1,701	666	1,035			i	
	TankFarms	Point	Count	2	0.0	600	0	600	10,778	20,160	771	16,92
Ryer Island	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	1,851	25.0	611	153	458				
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	44,230	25.0	8,846	2,212	6,635	ľ		i	
	gas_oil_production_fields	Point	Area	46	0.0	-	0	0	1		i	
	Gas_oil_wells	Point	Count	10	0.0	-	0	0			i	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	1		l	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	44,661	25.0	14,738	3,684	11,053			i	
	Residential - Manuf. Housing	Point	Count	2	100.0	96	96	0	1		i	
	Residential - Single Family Dwelling	Point	Count	23	100.0	4,386	4,386	0	11,031	1,500	15	18,1
acramento_Pocket_Area	boatlaunch	Point	Count	3	100.0	300	300	Ö				
	bridges_not_in_HAZUS	Point	Count	45	25.0	45,000	11,250	33,750			i	
	Commercial-Banks	Point	Count	80	22.0	61,080	13,438	47,642	1		i	
	Commercial-Entertainment and Recrea	Point	Count	64	22.0	57,759	12,707	45,052	i		i	1
	Commercial-Medical - Office Clinic	Point	Count	2	20.0	4,839	968	3,871			i	
	Commercial-Personal and Repair Serv		Count	12	28.0	17,461	4,889	12,572				
	Commercial-Professional - Technical S	Point	Count	14	44.0	151,934	66,851	85,083			i	1 .
	Commercial-Retail Trade	Point	Count	4	30.0	63,311	18,993	44,318			i	
	Commercial-Wholesale Trade	Point	Count	14	25.0	36,965	9,241	27,724	l		ı	
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	100,193	25.0	33,064	8,266	24,798			ı	1
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	536,173	25.0	107,235	26,809	80,426	l		i	1
	freeport_pipe_route_preferred	Linear	Length (ft)	6,456	0.0		0	0	-		ı	1
	Gas oil wells	Point	Count	10	0.0	-	o o	0	- I-		i	1
	Government - General Services	Point	Count	21	19.0	24,520	4,659	19,861	- 1		ł	1
	hc ambulatory	Point	Count	18	17.0	- 1,929	1,000	70,007	1		l	1
	hc nursing res	Point	Count	5	16.0		ő	0			i	1
	Hwy_Bridge_HAZUS_SDURS	Point	Count	5	25.0	10,000	2,500	7,500	- 1		i	1
	Hwy HAZUS SDURS	Linear	Length (ft)	60,183	25.0	19,861	4,965	14,895	1		į	1
	Industrial - Construction	Point	Count	30,103	100.0	10,382	10,382	14,090			1	į
	Industrial - Heavy	Point	Count		35.0	24,585	8,605	15,980	1		1	i
	Industrial - Light	Point	Count	3	35.0	6,872	2,405	4,467	1		i	
	NG Pipelines	Linear	Length (ft)	18.083	0.0	5,877	2,400	5,877			I	1
	Petroleum Pipelines	Linear	Length (ft)	16,466	0.0	3,458	- 6	3,458			Í	
	Rail 1000 nodes	Point	Count	10,400	0.0	3,436	<u>ő</u> l	3,430			i	1
	Rail HAZUS SDURS	Linear	Length (ft)	2,252	25,0	642	160	481			İ	•
	Religion - Churches and Other Non-pr	Point	Count	2,202	14.0	11,202	1,568	9,634			i	
	Residential - Duplex	Point	Count	159	45.5	46,151	20,999	25,152			1	
	Residential - Institutional Dormitory	Point	Count	23	20.0	91,050	18,210	72,840			i	
	Residential - Manuf. Housing	Point	Count	17	100.0	832	832	72,040		-	1	
	Residential - Multi-Dwellings - 10 to 19		Count	9	45.5	36,356	16,542	19,814		-	1	Ì
	Residential - Multi-Dwellings - 20 to 49		Count	3	45.5	55,633	25,313	30,320	I	l	I	ŀ
	Residential - Multi-Dwellings - 5 to 9 u		Count	66 66	45.5	112,983	51,407	61.576	I		I	1
	Residential - Multi-Dwellings - 50+ uni	Point	Count	15	45.5	175,381	79,798	95,583	I	1	I	1
	Residential - Single Family Dwelling	Point	Count	10,468	43.6	1,967,468	858,308	1,109,160	l	l	i	ł
	Residential - Single Family Dwelling Residential - Triplex - Quads	Point	Count	10,468	43.5 45.5	1,967,468 55,698	25,343	30,355	l	i	1	1
				1/4	24.0				I	- 1	I	1
	Schools_HAZUS_SDURS	Point	Count	3		1,770	425	1,345	· 1		I	
	sewage_treat	Point	Count	3	30.0	200,000	60,000	<u> </u>	l	ł	1	1
	superfund_sites TankFarms	Point	Count	1	0.0		0	- 0	l	l	i	1
		Point	Count	46.047		900	의	900	I	l	I	ĺ
	transin_ca	Linear	Length (ft)	48,817	0.0	12,019	0	12,019	l		I	1
	US_Cell_Towers	Point	Count	1	0.0	250	0	250	4 000 400	4 004 740	4.000].
	Utilities	Point	Count	2	0.0		0	0	1,366,133	1,804,749	14,275	141,
rgent_Barnhart_Tract 1	Commercial-Professional - Technical S	Point	Count	1	11.0	1		1	l		I	1
	Commercial-Retail Trade	Point	Count	1	9.0	10	1	. 9		l	i	1
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	10,550	25.0	2,110	527	1,582	I	i	1	1
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	4	0.0	1	0	10,001	ŀ	l	I	
	Residential - Duplex	Point	Count	13	15.5	3,575	554	3,021	1	l l	ı	1
	Residential - Multi-Dwellings - 10 to 19		Count	1	15.5	400	62	338	- 1		i	1
	Residential - Multi-Dwellings - 5 to 9 u		Count	1	15.5	2,296	356	1,940	- 1	l	1	Ī
	Residential - Multi-Dwellings - 50+ unit		Çount	1	15.5	8,224	1,275	6,949	- 1	ļ.	i	
	Residential - Single Family Dwelling	Point	Count	173	16.4	28,865	4,727	24,138	1			

	Residential - Triplex - Quads	Point	Count	6	15.5	1,948	302	1,646	ı	ı	1	
	Schools HAZUS SDURS	Point	Count	1	7.0	590	41	549	7.845	38,591	5,328	1,58
argent_Barnhart_Tract 2	air trans	Point	Count	- 1	0.0		0	0.0	-,,,,,	55,551	5,520	1,0
argent_barrinart_rract z	Commercial-Banks	Point	Count	7	19.0	5,454	1,036	4,418				
		Point	Count	13	20.0	13,521	2,704	10,817				
	Commercial-Medical - Office Clinic	Point	Count	9	18.0	10,007	1,801	8,206				
	Commercial-Personal and Repair Serv	Point	Count	6	25.0	5,372	1,343	4,029				
	Commercial-Professional - Technical S		Count	4	41,0	42,071	17,249	24,822				
	Commercial-Retail Trade	Point	Count	1	26.0	6,767	1,759	5,008				
	Delta Roads PBSJ Major Roads	Linear		4.901	25.0	1,617	404	1,213				
			Length (ft)							i		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	189,517	25.0	37,903	9,476	28,428				
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	13,189	0.0	2,770	0	12,770				
	hc_ambulatory	Point	Count	49	16.0		0					
	hc_hospitals	Point	Count	1	100.0		O O	0				
	hc_nursing_res	Point	Count	2	16.0		0	0	1	i		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	10	25.0	20,000	5,000	15,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,360	25.0	1,769	442	1,327				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	39,318	0.0	196,589	14,941	0				
	Petroleum Pipelines	Linear	Length (ft)	13,195	0.0	2,771	Ö	2,771	1			
	Residential - Duplex	Point	Count	60	43.0	15,748	6,772	8,976	- 1	l		
	Residential - Manuf. Housing	Point	Count	14	100.0	699	699	O	1		l	
	Residential - Multi-Dwellings - 10 to 19		Count	1	43.0	7,138	3,069	4,069				
	Residential - Multi-Dwellings - 5 to 9 ur		Count	23	43.0	37,812	16,259	21,553			l	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	2	43.0	46,490	19,991	26,499				
	Residential - Single Family Dwelling	Point	Count	2,719	39.1	571,250	223,502	347,748	1			
	Residential - Triplex - Quads	Point	Count	65	43.0	19,157	8,238	10,919	1			
	Schools HAZUS SDURS	Point	Count	6	10.0	3,540	354	3,186				
	Substation CA	Point	Count	1	25.0	1,000	250	750	1			
	transin_ca	Linear	Length (ft)	7,749	0.0	1,908	230	1,908	335,289	496,000	11,799	38,4
Courant Bourbont Treet 2				1,143			. 400	1,900	333,208	430,000	11,133	30,4
Sargent_Barnhart_Tract 3	boatlaunch	Point	Count	1	100.0	100	100	0 000	1	l.		
	Commercial-Entertainment and Recrea	Point	Count	5	26.0	4,101	1,066	3,035				
	Commercial-Personal and Repair Serv	Point	Count	1	32.0	626	200	426				
	Commercial-Professional - Technical S		Count	1	47.0	2,435	1,144	1,291	1			
	Commercial-Retail Trade	Point	Count	1	34.0	150	51	99				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1,583	25.0	317	79	238		- 1		
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	48.0	63	30	33				
	Residential - Multi-Dwellings - 5 to 9 ur	Point	Count	1	48.0	553	265	288				
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	48.0	230	110	120				
	Residential - Single Family Dwelling	Point `	Count	29	46,6	5,966	2,782	3,184		i		
	Residential - Triplex - Quads	Point	Count	1	48.0	178	85	93	5,914	8,567	6,181	2
Schafter-Pintail Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	12,297	25.0	2,459	615	1.844				
	Gas_oil_wells	Point	Count	1	0.0		7,0	7,511				
		Point	Count	· · · · · · · · · · · · · · · · · · ·	46.6	310	145	165	759	165	6	1,8
Sherman Island	boatlaunch	Point	Count	3	100.0	300	300	0	700	100		1,0
Gironilan_isiand	Commercial-Professional - Technical S	Point	Count	3	100.0	138	138	0		1		
	Commercial-Professional - Technical S	Point	Count		100.0	314	314	0		l		
				7.50								
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1,521	25.0	502	125	376		i		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	69,133	25.0	13,827	3,457	10,370	į			
	gas_oil_production_fields	Point	Area	530	0.0		9	0	l			
	Gas_oil_wells	Point	Count	31	0.0		0	0	l	1		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	19,828	25.0	6,543	1,636	4,907	i i			
	NG_Pipelines	Linear	Length (ft)	65,495	0.0	12,444	0	12,444	l l			
	NG_Wells	Point'	Count	3	0.0		0	0	į.	l		
	Residential - Manuf. Housing	Point	Count	26	100.0	885	885	0	ŀ			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	42	42	Ö	į			
		Point	Count	21	100.0	3,039	3,039	<u></u>	İ	i		
	transin ca	Linear	Length (ft)	21,392	0.0	6,887	0,000	6,887	9,936	o	n	34,9
Shima_Tract	Commercial-Entertainment and Recrea	Point	Count	2.,552	22.0	2,321	511	1,810	5,555			34,0
Ja_1140t	Commercial-Medical - Office Clinic	Point	Count	- 4	20.0	662	132	530	ļ	l		
	Commercial-Nedical - Office Cliffic	Point	Count		28.0					į		
				3		1,596	447	1,149	1	ļ	j	
	Commercial-Professional - Technical S		Count		44.0	9,544	4,199	5,345	1	j		
	Commercial-Retail Trade	Point	Count	1	30.0	1,828	548	1,280	i			

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	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	106,480	25.0	21,296	5,324	15,972	l			
	Gas_oil_wells	Point	Count		0.0		0	0				
	hc_ambulatory	Point	Count	8	16.0	-	0	0			*	
	hc_hospitals	Point	Count	1	25.0		0	0				
	hc_nursing_res	Point	Count	2	15.0		0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1 700	25.0	2,000	500	1,500			1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,769	25.0	1,904	476	1,428				
	Residential - Duplex	Point	Count	46	45.5	12,512	5,693	6,819			İ	
	Residential - Institutional Dormitory	Point	Count	3	20.0	3,648	730	2,918				
	Residential - Multi-Dwellings - 10 to 19		Count	22	45.5	6,585	2,996	3,589	1			
	Residential - Multi-Dwellings - 5 to 9 un		Count	22	45.5 45.5	32,996 28,264	15,013 12,860	17,983 15,404				
	Residential - Multi-Dwellings - 50+ unit		Count		43.5 43.6							
	Residential - Single Family Dwelling	Point	Count	2,067		346,785	151,285	195,500				
	Residential - Triplex - Quads	Point	Count	58	45.5	17,000	7,735	9,265				
	Schools_HAZUS_SDURS	Point	Count	10.000	5.0 0.0	590	30	561	200 470	202.052	E 750	22.225
Ohio Koo Too	transin_ca	Linear	Length (ft)	19,639		4,835	0	4,835	208,479	263,652	5,753	22,235
Shin_Kee_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	3,785	25.0	757	189	568	İ		·	
	Gas_oil_wells	Point	Count	4 057	0.0		. 0	0	ļ			
	Hwy_HAŻUS_SDURS	Linear	Length (ft)	4,257	25.0 0.0	1,405	351	1,054		_		r 22.
	transin_ca	Linear	Length (ft)	17,299		4,259	0	4,259	540	0	0	5,881
Simmons-Wheeler_Island	Residential - Single Family Dwelling	Point	Count	1	37.0	141	52	89	52	89	2	0
SM-123	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,064	25.0	1,341	335	1,006				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,885	25.0	1,977	494	1,483				
	Gas_oil_wells	Point	Count	3	0.0	-	Ö	0				
	Hwy Bridge HAZUS SDURS	Point	Count	4	25.0	8,000	2,000	6,000				
	Hwy_HÄZUS_SDURS	Linear	Length (ft)	2,607	25.0	860	215	645				
	Intermodal_terminal_facilities	Point	Count	1	0.0	-	0	0				
	NG_Pipelines	Linear	Length (ft)	2,479	0.0	818	0	818				
	Petroleum Pipelines	Linear	Length (ft)	3,045	0.0	639	0	639				
	Rail_1000_nodes	Point	Count	1	0.0	-	0	0	l			
	Rail_HAZUS_SDURS	Linear	Length (ft)	3,085	25.0	879	220	659				
		Point	Count	12	37.0	1,525	564	961				
	Residential - Triplex - Quads	Point	Count	1	38.5	226	87	139				
	transin_ca	Linear	Length (ft)	5,315	0.0	1,309	0	1,309	3,916	7,100	166	6,559
SM-124	Commercial-Entertainment and Recrea	Point	Count	4	14.0	5,451	763	4,688				
	Commercial-Personal and Repair Serv	Point	Count	3	16.0	4,608	737	3,871	l			
	Commercial-Professional - Technical S	Point	Count	, 1	28.0	10,077	2,822	7,255				
	Commercial-Retail Trade	Point	Count	1	18.0	6,688	1,204	5,484	1			
	Commercial-Wholesale Trade	Point	Count	1	13.0	1,717	223	1,494				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	8,486	25.0	2,800	700	2,100				
	Delta_Roads_PB\$J_Minor_Roads	Linear	Length (ft)	49,676	25.0	9,935	2,484	7,451				
	Gas_oil_wells	Point	Count	1	0.0	-	0	,0				
	Government - General Services	Point	Count	2	14.0	2,535	355	2,180				
	hc_ambulatory	Point	Count	4	12.0	-	0	Ó				
	hc_nursing_res	Point	Count	1	15.0	-	0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	l			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,224	25.0	1,394	348	1,045	l			
	NG_Pipelines	Linear	Length (ft)	4,077	0.0	775	0	775	I			
	Petroleum Pipelines	Linear	Length (ft)	38,776	0.0	8,143	0	8,143	İ			
	Pólice_Stations_HAZUS_SDURS	Point	Count	1	10.0	1,652	165	1,487	į			l
	ID-11 2000	Point 2	Count	4	0.0	- 1	0	0	į			
	Rail_1000_nodes			1	25.0	2,572	643	1,929	ŀ			
	Rail_Facility_HAZUS_SDURS	Point	Count					0.075			j i	
		Point Linear	Count Length (ft)	29,822	25.0	8,499	2,125	6,375	i			
	Rail_Facility_HAZUS_SDURS			29,822 21		8,499 6,196	2,125 1,766	4,430				
	Rail_Facility_HAZUS_SDURS Rail_HAZUS_SDURS	Linear	Length (ft)		25.0				ŀ			
	Rail_Facility_HAZUS_SDURS Rail_HAZUS_SDURS Residential - Duplex	Linear Point Point	Length (ft) Count	21	25.0 28.5	6,196	1,766	4,430				
	Rail Facility HAZUS SDURS Rail HAZUS SDURS Residential - Duplex Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19	Linear Point Point Point	Length (ft) Count Count Count	21	25.0 28.5 100.0 28.5	6,196 1,876	1,766 1,876 626	4,430 0 1,570				
	Rail Facility HAZUS SDURS Rail HAZUS SDURS Residential - Duplex Residential - Manuf. Housing	Linear Point Point Point	Length (ft) Count Count Count Count	21	25.0 28.5 100.0 28.5 28.5	6,196 1,876 2,196 5,033	1,766 1,876 626 1,434	4,430 0 1,570 3,599				
	Rail_Facility_HAZUS_SDURS Rail_HAZUS_SDURS Residential - Duplex Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 5 to 9 ur	Linear Point Point Point Point	Length (ft) Count Count Count	21 54 1 1	25.0 28.5 100.0 28.5	6,196 1,876 2,196	1,766 1,876 626	4,430 0 1,570 3,599 4,153				
	Rail Facility HAZUS SDURS Rail HAZUS SDURS Residential - Duplex Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 50 e ur Residential - Multi-Dwellings - 50* unit Residential - Single Family Dwelling	Linear Point Point Point Point Point Point Point Point Point	Length (ft) Count Count Count Count Count Count Count Count	21 54 1 1 1 536	25.0 28.5 100.0 28.5 28.5 28.5 29.3	6,196 1,876 2,196 5,033 5,809 92,605	1,766 1,876 626 1,434 1,656 27,087	4,430 0 1,570 3,599 4,153 65,518				
	Rail_Facility_HAZUS_SDURS Rail_HAZUS_SDURS Residential - Duplex Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 5 to 9 ur Residential - Multi-Dwellings - 50+ unit	Linear Point Point Point Point Point	Length (ft) Count Count Count Count Count Count	21 54 1 1	25.0 28.5 100.0 28.5 28.5 28.5	6,196 1,876 2,196 5,033 5,809	1,766 1,876 626 1,434 1,656	4,430 0 1,570 3,599 4,153				

	Substation CA	Point	Count	1	25.0	1,000	250	750	I	1	Ī	1
	transin ca	Linear	Length (ft)	13,589	0.0	3,346	0	3,346	103,487	119,205	2,100	29,235
SM-132	Gas oil wells	Point	Count	10,000	0,0	5,510	0	0,040	.55,.57	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		20,200
w	Residential - Single Family Dwelling	Point	Count	1	43.6	175	76	99	76	99	8	o
SM-133	gas oil production fields	Point	Area	203	0.0		0	0				
	Gas oil wells	Point	Count	9	0.0	-	0	0	o	· o	ol	О
SM-134	gas oil production fields	Point	Area	1	0.0	-	0	0				
	Gas_oil_wells	Point	Count	1	0.0	-	0	0	0	o	0	0
SM-198	Commercial-Retail Trade	Point	Count	1	34.0	1	O	1				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,875	25.0	775	194	581	1			
	Gas_oil_wells	Point	Count	3	0.0	-	.0	0				
	NG_Pipelines	Linear	Length (ft)	4,379	0.0	832	Ö	832				
	Petroleum Pipelines	Linear	Length (ft)	5,484	0.0	1,152	0	1,152				
	Rail_HAZUS_SDURS	Linear	Length (ft)	1,008	25.0	287	72	215	- 1			
	Residential - Multi-Dwellings - 10 to 19		Count	1	48.0	19	9	10	1			
		Point	Count	5	46.6	809	377	432	652	442	7	2,780
SM-199	Communication_HAZUS_SDURS	Point	Count	1	100.0	118	118	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,987	25.0	797	199	598	1	l	i	
	Residential - Multi-Dwellings - 10 to 19		Count	1	45.5	10′	5	5		l	1	
	Residential - Single Family Dwelling	Point	Count	2	43.6	450	196	254	518	259	161	598
SM-202	Residential - Single Family Dwelling	Point	Count	1	39.1	165	65	100	65	100	6	0
SM-39	Commercial-Professional - Technical S	Point	Count	1	28.0	46	13	33				
	Commercial-Retail Trade	Point	Count	1	18.0	127	23	104	1	l	1	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,675	25.0	1,543	386	1,157			1	
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	13,304	25.0	2,661	665	1,996	- 1			
	Hwy Bridge HAZUS SDURS	Point	Count	3	25.0	6,000	1,500	4,500		į.	1	
	Rail HAZUS SDURS	Linear	Length (ft)	3,726	25.0	1,062	266	797		l l		
	Residential - Single Family Dwelling	Point	Count	6	29.3	1,159	339	820			į	
	transin_ca*	Linear	Length (ft)	13,355	0.0	3,288	0	3,288	3,191	5,457	269	7,237
SM-40	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	7,779	25.0	1,556	389	1,167	389	0	0	1,167
SM-41	Commercial-Professional - Technical S	Point	Count	1	38.0	2	1	1				
	Commercial-Retail Trade	Point	Count	1	23.0	36	8	28				
	Delta Roads PB\$J Minor Roads	Linear	Length (ft)	373	25.0	75	19	56		İ	ŕ	
	Petroleum Pipelines	Linear	Length (ft)	10,066	0.0	2,114	0	2,114				
	Rail_HAZUS_SDURS	Línear	Length (ft)	5,568	25.0	1,587	397	1,190	424	29	16	3,360
SM-42	Substation CA	Point	Count	1	25.0	1,000	250	750				
	transin ca	Linéar	Length (ft)	3,060	0.0	753	.0	753	250	750	366	753
SM-43	gas oil production fields	Point	Area	80	0.0	-	0	0				
	Gas oil wells	Point	Count	4	0.0	-	0	0				
	Residential - Single Family Dwelling	Point	Count	1	37.0	168	62	106	62	106	8	o
SM-44	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	11,682	25.0	2,336	584	1,752				
	Residential - Single Family Dwelling	Point	Count	7	32.6	1,364	445	919				
	transin_ca	Linear	Length (ft)	5,355	0.0	1,318	Ó	1,318	1,029	919	101	3,071
SM-46	Commercial-Retail Trade	Point	Count	1	26.0	3	1	2				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,339	25.0	468	117	351	118	2	0	351
SM-47	solid waste facilities	Point	Count	1	25.0		0	0	0	o	0	0
SM-48	Commercial-Entertainment and Recrea	Point	Count	1	18.0	720	130	590			-	
·•	Commercial-Professional - Technical S		Count		38.0	839	319	520			- 1	
	Commercial-Retail Trade	Point	Count	2	23.0	14,924	3,433	11,491			1	
	Gas oil wells	Point	Count	2	0.0	.,,524	0,400				1	
	Petroleum Pipelines	Linear	Length (ft)	20,675	0.0	4,342	ő	4,342	l l		1	
	Rail HAZUS SDURS	Linear	Length (ft)	9,922	25.0	2,828	707	2,121	4.588	12,602	286	6,463
SM-49	Commercial-Entertainment and Recrea	Point	Count	1	18.0	884	159	725	1,000	12,002	200	5, 100
		Point	Count		38.0	3,605	1,370	2,235	1	İ	1	
	Commercial-Retail Trade	Point	Count		23.0	3,942	907	3,035	Į.			
	Commercial-Wholesale Trade	Point	Count	, , ,	19.0	3,603	685	2,918	ŀ	l	[
	Delta_Roads_PBSJ_Minor_Roads	Lineár	Length (ft)	17,086	25.0	3,417	854	2,563	ļ.		1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	3,040	25.0	1,003	251	2,563 752			ı	
	Industrial - Light	Point	Count	3,040	30.0	2,036	611	1,425	1	ŀ]	
	Petroleum Pipelines	Linear	Length (ft)	19,582	0.0	4,112	0	4,112	1		1	
	Rail HAZUS SDURS	Linear	Length (ft)	9,851	25.0	2,808	702	2,106	1	1	ı	
	rai_in-200_0DONG	Little Cit	recingui (II)	9,001	20.0	۵,000	702	2,100	L L	1	J.	

	Residential - Single Family Dwelling	Point	Count	8	37.0	1,694	627	1,067	6,165	11,406	315	9,533
SM-51	gas oil production fields	Point	Area	2	0.0	1,034	<u> </u>	1,007	0,100	11,700	0.0	0,000
SM-52	Commercial-Retail Trade	Point	Count		20.0	61	12	49				
31VI-02	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	7,653	25.0	1,531	383	1,148				
	gas oil production fields	Point	Area	188	0.0	1,001	000	7,110	1			
	Gas oil wells	Point	Count	8	0.0	-	0	0		l		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	1			
	Hwy HAZUS SDURS	Linear	Length (ft)	686	25.0	226	57	170		l		
	Residential - Multi-Dwellings - 10 to 1		Count	1	32.0	3	1	2	1	l		
	Residential - Single Family Dwelling	Point	Count	3	32.6	458	149	309	1,102	1,859	95	1,318
SM-53	Commercial-Retail Trade	Point	Count	1	16.0	28	4	24				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	53	25.0	11	3	8	i			
	gas oil production fields	Point	Area	177	0.0	-	0	0				
	Gas oil wells	Point	Count	3	0.0	-	0	0	ŀ	i		
	Residential - Multi-Dwellings - 10 to 1	9 Point	Count	1	25.5	1	0	1	7	24	6	8
SM-54	Commercial-Personal and Repair Ser	v Point	Count	2	19.0	2,712	515	2,197				
	Commercial-Professional - Technical	S Point	Count	1	35.0	5,465	1,913	3,552		- 1		
	Commercial-Retail Trade	Point	Count	1	20.0	5,288	1,058	4,230	i	1		
	Commercial-Wholesale Trade	Point	Count	5	16.0	12,290	1,966	10,324	1	1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	3,186	25.0	1,051	263	789	į	1		
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	24,042	25.0	4,808	1,202	3,606				
	Gas_oil_wells	Point	Count	1	0.0	-	0	0	1	1		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500	- 1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	2,346	25.0	774	194	581	- 1			
	Industrial - Construction	Point	Count	1	47.0	4,275	2,009	2,266	- 1	į.		
	Industrial - Heavy	Point	Count	3	22.0	10,740	2,363	8,377	- 1	I		
	NG_Pipelines	Linear	Length (ft)	460	0.0	87	0	87	- 1			
	Petroleum Pipelines	Linear	Length (ft)	25,987	0.0	5,457	0	5,457	- 1	l		
	Rail_1000_nodes	Point	Count	4	0.0		0	0	- 1	I		
	Rail_Facility_HAZUS_SDURS	Point	Count	1	0.0	2,572	0	2,572	- 1	l		
	Rail_HAZUS_SDURS	Linear	Length (ft)	38,417	25.0	10,949	2,737	8,212	- 1	I		
	Residential - Multi-Dwellings - 10 to 1		Count		32.0	2		1	- 1			
	Residential - Multi-Dwellings - 50+ un		Count	1	32.0	9	504	4.450	- 1	l		
	Residential - Single Family Dwelling	Point Point	Count	8	32.6 25.0	1,719	561	1,158	16,284	39,184	809	18,732
A14 FF	solid_waste_facilities		Count	11.001		0.070	719	0.457	10,204	39,104	009	10,732
SM-55	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	14,381	25.0	2,876 842	719	2,157 842	- 1	l		
	NG_Pipelines	Linear	Length (ft)	4,432	0.0	895	- 0		- 1	ı		
	Petroleum Pipelines Residential - Single Family Dwelling	Linear Point	Length (ft) Count	4,260	46.6	353	165	895 188	884	188	5	3,894
017.50				E 447	25.0		271	812	004	100		5,094
SM-56	Delta Roads PBSJ Minor Roads	Linear Point	Length (ft) Count	5,417	0.0	1,083	2/1	012	- 1			
	Gas_oil_wells			4,637	0.0	881		881	- 1	l		
	NG_Pipelines Petroleum Pipelines	Linear Linear	Length (ft) Length (ft)	3,100	0.0	651		651	- 1	ŀ		
	Residential - Single Family Dwelling	Point	Count	3,100	37.0	577	213	364	484	364	6	2,345
SM-57	bridges not in HAZUS	Point	Count	- 3	25.0	1,000	250	750	707	307		2,040
3141-31	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	36	25.0	12	250	750	- 1			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	9.872	25.0	1,974	494	1,481	ŀ	l		
	hc ambulatory	Point	Count	9,012	11.0	1,314		1,401				
	Hwy_Bridge_HAZUS_SDURS	Point	Count		25.0	2,000	500	1,500		l		
	Hwy HAZUS SDURS	Linear	Length (ft)	2,242	25.0	740	185	555	ı	i		
	NG Pipelines	Linear	Length (ft)	5,915	0.0	1.124	100	1,124	1	j		
	Residential - Single Family Dwelling	Point	Count	19	29.3	4,243	1,241	3,002	1	ŀ		
	solid_waste_facilities	Point	Count	13	25.0	7,240	1,241	5,502	- 1	l		
	transin ca	Linear	Length (ft)	11,665	0.0	2,872	ő	2,872	- 1	l		
	water trans	Point	Count	1,000	0.0	2,012	0	2,012	2,673	5,252	141	6,041
SM-58	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	3,840	25.0	768	192	576	192	0,202	0	576
SM-59	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	291	25.0	58	15	44	132			3/0
J00	gas oil production fields	Point	Area	204	0.0	, 50	15	- 44	- 1	ľ		
	Gas oil wells	Point	Count	6	0.0	-	0	<u> </u>	- 1			
	Hwy HAZUS SDURS	Linear	Length (ft)	4,382	25.0	1,446	362	1,085	- 1	ļ		
	Residential - Single Family Dwelling	Point	Count	1	29.3	163	48	115	424	115	4	1,128
						,,,,	70	1.10	-74-71	7,10	7	1,120

1	Commercial-Personal and Repair Serv	Point	Count	1	13.0	400	52	348			ı	
+	Commercial-Professional - Technical S		Count	1	22.0	1,668	367	1,301				İ
	Commercial-Retail Trade	Point	Count	1	16.0	595	95	500				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,004	25.0	801	200	601				
	Gas oil wells	Point	Count	3	0.0	-	0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500			,	
	Residential - Single Family Dwelling	Point	Count	2	25.8	290	75	215	1,431	4,903	210	601
SM-84	Commercial-Retail Trade	Point	Count	1	30.0	78	23	55				
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	40,711	25.0	8,142	2,036	6,107				l
	gas_oil_production_fields	Point	Area	9	0.0	-	0	0				
	Gas_oil_wells	Point	Count	4	0.0	-	0	0				
	Rèsidential - Single Family Dwelling	Point	Count	7	43.6	1,375	600	775	2,659	830	9	6,107
SM-85-Grizzly_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	42,407	25.0	8,481	2,120	6,361				· · · · · · · · · · · · · · · · · · ·
	gas_oil_production_fields	Point	Area	188	0.0	-	0	ŶO.				
	Gas_oil_wells	Point	Count	11	0.0	-	0	0				
	NG_Pipelines	Linear	Length (ft)	28,157	0.0	5,350	0	5,350				
	Petroleum Pipelines	Linear	Length (ft)	2,326	0.0	488	0	488				
	Residential - Single Family Dwelling	Point	Count	4	39.1	910	356	554	2,476	554		12,199
Smith_Tract	Commercial-Entertainment and Recrea	Point	Count	4	14.0	2,885	404	2,481				
	Commercial-Personal and Repair Serv		Count	2	16.0	2,505	`401	2,104	l			l
	Commercial-Professional - Technical S		Count	1	28.0	2,354	659	1,695				
	Commercial-Retail Trade	Point	Count	1	18.0	3,782	681	3,101				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	11,770	25.0	3,884	971	2,913				
	Delta_Roads_PBSJ_Minor_Roads	Ĺinear	Length (ft)	157,829	25.0	31,566	7,891	23,674	ł			
	hc_ambulatory	Point	Count	4	13.0	-	0	0.				
•	hc_nursing_res	Point	Count	1	20.0	-	0	0	1			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	5	25.0	10,000	2,500	7,500	1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,180	25.0	1,380	345	1,035	1			
	Religion - Churches and Other Non-pro	Point	Count	1	12.0	1,680	202	1,478	1			
	Residential - Duplex	Point	Count	29	28.5	7,938	2,262	5,676	1			
	Residential - Manuf. Housing	Point	Count	14	100.0	527	527	, 0				1
	Residential - Multi-Dwellings - 10 to 19	Point	Count	3	28.5	7,943	2,264	5,679	1			
	Residential - Multi-Dwellings - 20 to 49		Count	1	28.5	15,653	4,461	11,192				
	Residential - Multi-Dwellings - 5 to 9 ur		Count	3	28.5	7,256	2,068	5,188	1			
	Residential - Multi-Dwellings - 50+ unit	Point	Count	3	28.5	32,439	9,245	23,194	1			
			Count	3,058	29.3	509,613	149,062	360,551	1			
	Residential - Triplex - Quads	Point	Count	10	28.5	5,428	1,547	3,881	1			
	Schools_HAZUS_SDURS	Point	Count	2	9.0	1,180	106	1,074	185,596	434,795	18,268	27,622
Stark_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	280	25.0	56	14	42				
	Gas_oil_wells	Point	Count `	1	0.0	•	Ó	0				
	NG_Pipelines	Linear	Length (ft)	4,943	0.0	939	0	939				
	Residential - Single Family Dwelling	Point	Count	2	43.6	332	145	187				
	transin_ca	Linear	Length (ft)	14,136	0.0	3,480	0	3,480	159	187	12	4,462
Staten_Island	Commercial-Retail Trade	Point	Count	1	100.0	123	123	0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,422	25.0	1,459	365	1,094	l			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	16,055	25.0	3,211	803	2,408				
	gas_oil_production_fields	Point	Area	1,092	0.0	-	0	0				
	Gas_oil_wells	Point	Count	20	0.0	•	0	0	l			
	NG_Pipelines	Linear	Length (ft)	14,653	0.0	3,810	0	3,810	· •			
	NG_Wells	Point	Count	3	0.0	-	0	0	l			
	Residential - Manuf. Housing	Point	Count	4	100.0	122	122	0	l			
	Residential - Single Family Dwelling	Point	Count	2	100.0	192	192	0	1,605	0	0	7,313
Stewart_Tract			Count	1	41.0	143	59	84				
	Commercial-Retail Trade	Point	Count	1	26.0	486	126	360	ŀ			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	29,052	25.0	5,810	1,453	4,358	İ			
	Gas_oil_wells		Count	4	0.0	-	, 0	0	l			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500	- 1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,512	25.0	1,489	372	1,117	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,671	25.0	1,331	333	998	i			
	Residential - Manuf, Housing	Point	Count	10	100.0	374	374	Ó	I			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	43.0	121	52	69	l			
			Count	49	39.1	8,518	3,333	5,185	l l		l .	1

Sutter Island	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear Linear	Length (ft) Length (ft)	3,515 61,390	25.0 25.0	1,160	290	870				
								0.000	l l			
				01,350	20.0	12,278	3,069	9,208	1			I
	Gas oil wells	Point	Count	5	0.0	-	0	0	- 1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,145	25.0	1,698	424	1,273	- 1			
	Residential - Manuf. Housing	Point	Count	2	100.0	35	35	0	1			
		Point	Count	1	100.0	299	299	0	- 1			
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	100.0	79	79	0				
	Residential - Single Family Dwelling	Point	Count	33		6,013	6,013	0	10,210	0	0	11,35
Terminous_Tract 1	Commercial-Professional - Technical S		Count	1		2	1	1	- 70,210		·	
reminous_rract r		Point	Count	1	20.0	8						1
	Commercial-Retail Trade					511	128	383	- 1			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1,547	25.0				1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	6,059	25.0	1,212	303	909				
	gas_oil_production_fields	Point	Area	27			0	0				
	Gas_oil_wells	Point	Count	3	0.0		0	0				
	Hwy Bridge HAZUS SDURS	Point	Count	1	20.0	2,000	500	1,500				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,274	25.0	1,411	353	1,058	i			•
	NG_Pipelines	Linear	Length (ft)	651	0.0	/ 150	0	150				
	Residential - Manuf. Housing	Point	Count	6	100.0	221	221	0	į.			ľ
	Residential - Single Family Dwelling	Point	Count	2	32.6	355	116	239	l			I
	Schools_HAZUS_SDURS	Point	Count	1	9.0	590	53	537	l			
	transin_ca	Linear	Length (ft)	8,056	0.0	1,984	0	1,984	1,675	2,284	84	4,48
Terminous_Tract 2	Agriculture	Point	Count	1	100,0	953	953	0				
remmous_rract2	boatlaunch	Point	Count	1		100	100		- 1			
		Point	Count	1		72	72	- ŏ	- 1			
	Commercial-Retail Trade	Point	Count	1		354	354					
				1		1,610	1,610	<u>-</u>	- 1			
	Commercial-Wholesale Trade	Point	Count					- 000	- 1			1
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	2,780	25.0	917	229	688				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	57,147	25.0	11,429	2,857	8,572				
	gas_oil_production_fields	Point	Area	303	0.0		0	0				
	Gas_oil_wells	Point	Count	9	0.0		0	0				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,771	25.0	1,574	394	1,181	l l			1
	NG_Wells	Point	Count	1	0.0	- 1	0	Ō	- 1			
	Residential - Duplex	Point	Count	1	100.0	362	362	0				
	Residential - Manuf. Housing	Point	Count	121	100.0	4,125	4,125	0	- 1			
	Residential - Single Family Dwelling	Point	Count	48		6,491	6,491	0	- 1			
	US Cell Towers	Point	Count	1	0.0	250	0	250	18,047	1,750	19	10,44
erminous_Tract 3	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	251		50	13	38	,	.,		
ellillous_flacto	Residential - Manuf. Housing	Point	Count	7		230	230					
	Residential - Single Family Dwelling	Point	Count	3	46.6	363	169	194	412	194	96	3
				•					412	134	30	`
witchell_Island	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	19,768	25.0	3,954	988	2,965				
	gas_oil_production_fields	Point	Area	1,407	0.0		<u> </u>	<u>0</u>	l	l		
	Gas_oil_wells	Point	Count	22	0.0		0	0	i			I
	NG_Pipelines	Linear	Length (ft)	6,373	0.0	1,466	0	1,466	i			
	NG_Wells	Point	Count	9		-	0	0	į			·
	Residential - Duplex	Point	Count	1	100.0	182	182	0	ı			1
	Residential - Manuf. Housing	Point	Count	19	100.0	663	663	Ö	I			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1		32	32	0	I			l
	Residential - Single Family Dwelling	Point	Count	17	100.0	2,273	2,273	o	ı			1
	Residential - Triplex - Quads	Point	Count	1	100.0	135	135	ō	4,273	o	0	4,43
yler_island 2	airport points	Point	Count	1	25.0		0				· · · · · · · · · · · · · · · · · · ·	t
J	Airports HAZUS SDURS	Point	Count		25.0	6,431	1,608	4,823	1			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	5,160	25.0 25.0	1,703	426	1,277	1	*		I
								19,900	- 1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	132,666	25.0	26,533	6,633	19,900	1			
	gas oil production fields	Point	Area	2,107	0.0		0	<u> </u>				1
	Gas_oil_wells	Point	Count	45	0.0		0	0	1			1
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	NG Pipelines	Linear	Length (ft)	14,527	0.0	3,051	0	3,051	l			
	NG_Wells	Point	Count	4	0.0	- I	0	0				ŀ
	NG_Wells Residential - Manuf. Housing	Point Point	Count Count	<u>4</u>	0.0 100.0	106	106	0				

	Runway HAZUS SDURS	Point	Count	1	25.0	36,674	9,169	27,506	1			1
	solid_waste_facilities	Point	Count	1	25.0	-	0	0	20,762	33,829	309	24,22
Jnion_Island 1	Dams HAZUS SDURS	Point	Count	1	0.0	-	0	0				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	6,456	25.0	2,131	533	1,598				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	113,774	25.0	22,755	5,689	17,066	l			
	gas_oil_production_fields	Point	Area	226	0.0	-	0	0				
	Gas oil wells	Point	Count	13	0.0	- 1	0	0				
	NG_Pipelines	Linear	Length (ft)	17,354	0.0	3,297	0	3,297				
	NG_Wells	Point	Count	4	0.0	-	0	0				
	Residential - Manuf. Housing	Point	Count	` 5	100.0	162	162	0				
	Residential - Single Family Dwelling	Point	Count	25	100.0	3,919	3,919	0				1
	transin_ca	Linear	Length (ft)	29,470	0.0	7,256	0	7,256	10,302	0	(29,21
Union_island 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	415	25.0	83	21	62				
_	gas_oil_production_fields	Point	Area	0	0.0	-	0	0				
	NG_Pipelines	Linear	Length (ft)	2,582	0.0	491	0	491	21	0	(55
Jnion Island 3	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,733	25.0	947	237	710				
- · · · - · · _ · · · · · · · ·	Gas oil wells	Point	Count	4	0.0	-	0	0	1			
	NG Pipelines	Linear	Length (ft)	6,943	0.0	1,319	0	1,319	- 1			
	Residential - Single Family Dwelling	Point	Count	2	43.6	347	151	196	1			
	transin ca	Linear	Length (ft)	14,549	0.0	3,582	0	3,582	388	196	1:	5,61
Jnion Island 4	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,456	25.0	491	123	368		,		
	gas oil production fields	Point	Area	69	0.0		0	70	- 1			1
	Gas oil wells	Point	Count	3	0.0		ő	- 0	- 1			i
	NG Pipelines	Linear	Length (ft)	1,028	0.0	195	ŏ	195	123	n		56
Jpper_Roberts_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	66,021	25.0	13,204	3,301	9,903				
opper_roberto_isiana	gas oil production fields	Point	Area	849	0.0	10,204	0,001	0,000				
	Gas_oil_wells	Point	Count	23	0.0		ő					
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	Nat Gas HAZUS SDURS	Point	Count		0.0	1,286	300	1,286				ì
	NG Pipelines	Linear	Length (ft)	13,506	0.0	2,566		2,566				
	NG Wells	Point	Count	13,300	0.0	2,000		2,300	- 1			
				3	100.0	83		\				į.
	Residential - Manuf, Housing	Point	Count	٧,			83					i
	Residential - Single Family Dwelling	Point	Count	25 27,814	32.6 0.0	4,303 6,848	1,404	2,899 6,848	E 200	E 00E	7,	40.04
	transin_cà	Linear	Length (ft)			0,048	0	0,848	5,288	5,685	72	19,31
/an_Sickle_island	gas_oil_production_fields	Point	Area	148	0,0		- 0	0				
	Gas_oil_wells	Point	Count	6	0.0		~	0				
	Residential - Single Family Dwelling	Point	Count	. 2	43.6	391	171	220				,l
	sewage_treat	Point	Count	1	30.0	100,000	30,000		30,171	220		7
/eale_Tract 1	Commercial-Professional - Technical S		Count	1	47.0	156	73	83				
	Commercial-Retail Trade	Point	Count	1	34.0	49	17	32	- 1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,068	25.0	414	103	310				
	gas_oil_production_fields	Point	Area	85	0.0	-	0	<u> </u>				
	Gas_oil_wells	Point	Count	4	0.0		0	0				
	Residential - Manuf. Housing	Point	Count	4	100.0	151	151	0				
	Residential - Single Family Dwelling	Point	Count	25	46.6	5,251	2,448	2,803		!		.
	transin_ca	Linear	Length (ft)	14,589	0.0	4,697	0	4,697	2,793	2,918	111	5,00
/eale_Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	118	25.0	24	6	18				I
	NG_Pipelines	Linear	Length (ft)	7	0.0	1	0	1	l			1
	Residential - Institutional Dormitory	Point	Count	1	16.0	3,585	574	3,011	i			
	Residential - Single Family Dwelling	Point	Count	2	37.0	424	157	267	736	3,279	564	‡ [1
/enice_lsland	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	62,979	25.0	12,596	3,149	9,447				
	Gas_oil_wells	Point	Count	3	0.0	-	0	0				
	Residential - Manuf. Housing	Point	Count	2	100.0	30	30	0	3,179	0	(9,44
/ictoria_lsland	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	66,424	25.0	13,285	3,321	9,964				1
_	Hwy HAZUS SDÚRS	Linear	Length (ft)	5,687	25.0	1,877	469	1,408				
	NG Pipelines	Linear	Length (ft)	9,170	0.0	1,742	, 0	1,742				1
	Residential - Institutional Dormitory	Point	Count	, 2	100,0	8,025	8,025	0				1
	Residential - Manuf. Housing	Point	Count	<u> </u>	100.0	25	25	· 6				
	Residential - Single Family Dwelling	Point	Count	, 3	100.0	764	764	ň	ł			I
	transin ca	Linear	Length (ft)	9,614	0.0	3,095	, <u>', ', ', ', ', ', ', ', ', ', ', ', ', '</u>	3,095	12,604	n	(16,20
Malaud Onesia	Commercial-Professional - Technical S		Count	1	100.0	277	277	5,536			······	10,20
Valnut_Grove												

								······				
	Communication_HAZUS_SDURS	Point	Count	3	100.0	354	354	0				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	3,282	25.0	1,083	271	812				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	23,843	25.0	4,769	1,192	3,576				
	gas_oil_production_fields	Point	Area	279	0.0	-	0	0				
	Gas_oil_wells	Point	Count	5	0.0	- 1	0	0				
	hc_ambulatory	Point	Count	1	13.0	-	0	Ö				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Residential - Duplex	Point	Count	14	100.0	3,953	3,953	0				
	Residential - Manuf, Housing	Point	Count	7	100.0	277	277	Ö				
	Residential - Single Family Dwelling	Point	Count	141	100.0	25,169	25,169	ol	32,561	3.076	294	4,38
Walthal_Tract	Commercial-Retail Trade	Point	Count	1	30.0	32	10	22				
***************************************	Delta Roads PBSJ Major Roads	Linear	Length (ft)	5,330	25.0	1.759	440	1,319				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	22,223	25.0	4,445	1,111	3,333				
		Point	Area		0.0	4,445	1,111	3,333				
	gas_oil_production_fields			409	0.0	- -	0	- 0				
	Gas_oil_wells	Point	Count	9			•	•	-			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	NG_Pipelines	Linear	Length (ft)	2,032	0.0	660	o ,	660				
	NG_Wells	Point	Count	2	0.0		0	0	- 1			
	Residential - Manuf. Housing	Point	Count	27	100.0	986	986	0	l			
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	45.5	43	20	23	1			
		Point	Count	103	43.6	18,049	7,874	10,175	i			
	transin_ca	Linear	Length (ft)	3,991	0.0	983 '	Ŏ	983	10,940	11,721	274	6,29
Water Canal	gas_oil_production_fields	Point	Area	1	0.0	T	0	0	0	0	#VALUE!	
Water Zone 1	Commercial-Entertainment and Recrea	Point	Count	1	33.0	1,187	392	795				
	Commercial-Professional - Technical S	Point	Count	1	100.0	1,824	1,824	O				
	Commercial-Retail Trade	Point	Count	1	42.0	689	289	400				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	3,425	25.0	1,130	283	848				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	24,217	25.0	4,843	1.211	3,633	ŀ			
	gas oil production fields	Point	Area	86	0.0		1,211	0,000	l			
	Gas oil wells	Point	Count	3	0.0		- 3	 	i			
	Hwy HAZUS SDURS	Linear	Length (ft)	20,349	25.0	6.715	1,679	5,036	1			
	NG Pipelines	Linear		545	0.0	153	0	153				
			Length (ft)	138	0.0		<u>×</u>		1			
	Pétroleum Pipelines Rail HAZUS SDURS	Linear	Length (ft)			29	<u> </u>	29				
		Linear	Length (ft)	25	25.0	7	2					
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	64	64	0				
		Point	Count	1	100.0	255	255	0			1	
	Residential - Single Family Dwelling	Point	Count	29	100.0	6,366	6,366	0				
	transin_ca	Linear	Length (ft)	406	0.0	100	0	100	12,364	1,195	#VALUE!	9,80
Water Zone 2	Commercial-Professional - Technical S	Point	Count `	. 1	44.0	5	2	3				
	Commercial-Retail Trade	Point	Count	1	30.0	2	1	1	i			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	0	25.0	0	0	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	15	25.0	3	1	2				
	gas_oil_production_fields	Point	Area	35	0.0		0	0				
	Rail_HAZUS_SDURS	Linear	Length (ft)	0	25.0	0	Ö	Ò				
	transin_ca	Linear	Length (ft)	1	0.0	- 0	0	0	4	4	#VALUE!	
Vater Zone 3	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	Ö	25.0	0	0	0		···		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)		25.0	Ö	<u> </u>	— ŏl	j		1	
	gas oil production fields	Point	Area	128	0.0	<u>-</u>	ŏ		I			
	transin ca	Linear	Length (ft)	120	0.0	- 0			0	۸	#VALUE!	
Water Zone 4	Delta Roads PBSJ Minor Roads			55	25.0	11			<u>_</u>	· · · · · ·	#AVEAE!	
valer 20118 4		Linear	Length (ft)				3	8		i	1	
	gas_oil_production_fields	Point	Area	4	0.0		0	10.000			l	
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	0	0.0	0 '	0	10,000		_		
	transin_ca	Linear	Length (ft)	0	0.0	0	0	0	3	0	#VALUE!	
Vater Zone 5	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	0	25.0	0	0	0	Ī			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	0	25.0	0	0	0				
	gas_oil_production_fields	Point	Area	3	0.0	-	0	0	1			
	transin_ca	Linear	Length (ft)	0	0.0	0	0	0	o	0	#VALUE!	
Vebb_Tract	gas oil production fields	Point	Area	82	0.0	- 1	0	o		_		
-	Gas oil wells	Point	Count	10	0.0		Ö	<u> </u>	!	J	Į	
				1,291	0.0	245	ň	245				
	ING Pipelines	Linear										
	NG_Pipelines NG_Wells	Linear Point	Length (ft) Count	1,291	0.0	245	<u> </u>		ام	ما	اً،	24

Waste_Water_HAZUS_SDURS water_trans	Point Point	Count Count	2 3	0.0	157,176	0	47,153	467,534	150,479	2,261	70
Waste_Water_HAZUS_SDURS	Point	Count	20,024	0.0	157,176		47,153	l			
transln ca	Linear	Length (ft)	33,024	0.0	8,131	0	8,131				
solid_waste_facilities TankFarms	Point Point	Count Count	- 3 2	0.0	6.000	0	6,000				
sewage_treat	Point	Count	1 3	30.0 25.0	100,000	30,000					
Residential - Triplex - Quads	Point	Count	29	100.0	9,259	9,259	0	l			
Residential - Single Family Dwelling	Point	Count	1,412	100.0	193,826	193,826	0	l			
Residential - Multi-Dwellings - 50+ unit		Count	1	100.0	17,266	17,266	0			1	
Residential - Multi-Dwellings - 5 to 9 ur	Point	Count	1	100.0	12,593	12,593	0				
Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	10,471	10,471	0				
Residential - Manuf. Housing	Point	Count	398	100.0	13,607	13,607	2,,,0,				
Residential - Institutional Dormitory	Point	Count	<u>~</u>	38.0	3,495	1,328	2,167	1			
Residential - Duplex	Point	Count	54	100.0	14,693	14,693	2,017				
	Point	Count	71,022	30.0	3,595	1,079	2,517			i	
Rail HAZUS SDURS	Linear	Length (ft)	47,822	25.0	13,629	3,407	10,222			i	
Rail Facility HAZUS SDURS	Point	Count	4	100.0	10,290	10,290	2,230			i	
Rail_Bridge_HAZUS_SDURS	Point	Count	3	25.0	3,000	750	2,250			i	
Rail 1000 nodes	Point	Count	12	0.0	7,7,17	0				i	
Port_HAZUS_SDURS	Point	Count	3	0.0	7,717	ŏ	· 7,717			į l	
pipeline trans	Point	Count	20,000	0.0	3,102	0	0,102	į		i	
Petroleum Pipelines	Linear	Length (ft)	29,059	0.0	6,102	- 0	6,102	ļ		į	
NG Pipelines	Linear	Length (ft)	10,883	0.0	2,829	0	2,829]		i	
Intermodal terminal facilities	Point	Count	3	0.0	0,007	, 0	0,200				
Industrial - Heavy Industrial - Light	Point Point	Count Count	3	48.0	6,307	3,027	3,280	1		i i	
Industrial - Food - Drugs - Chemical		,	4	100.0	12,498	12,013	10,090	1			
Industrial - Construction	Point Point	Count Count	5	100.0 42.0	5,306 28,603	5,306 12,013	16,590	1			
Hwy_HAZUS_SDURS	Linear	Length (ft)	18,423	25.0	6,080	1,520	4,560				
Hwy_Bridge_HAZUS_SDURS	Point	Count	5	25.0	10,000	2,500	7,500	1			
hc_nursing_res	Point	Count	1	38.0		0	0				
hc_hospitals	Point	Count	1	100.0	-	0	0			i	
hc_ambulatory	Point	Count	8	27.0	-	0	0			1	
Hazmat_HAZUS_SDURS	Point	Count	15	0.0		0	0			į į	
Government - General Services	Point	Count	1	44.0	808	356	452	l		1	
Delta Roads PBSJ Minor Roads	Linear	Length (ft)	184,628	25.0	36,926	9,231	27,694			1	
Delta Roads PBSJ Major Roads	Linear	Length (ft)	43,306	25.0	14,291	3,573	10,718	j		ı İ	
Commercial-Retail Trade Commercial-Wholesale Trade	Point	Count	36	45.0	81,018	36,458	44,560				
Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count	1	100.0	18,204	18.204	-				
Commercial-Personal and Repair Serv	Point	Count Count		47.0 100.0	7,576 34,771	3,561 34,771	4,015 0			1	
Commercial-Medical - Office Clinic	Point	Count	1	34.0	1,687	574	1,113			ı	
Commercial-Entertainment and Recrea	Point	Count	5	41.0	3,670	1,505	2,165				
bridges_not_in_HAZUS	Point	Count	4	25.0	4,000	1,000	3,000			ı	
boatlaunch	Point	Count	1	100.0	100	100	0			1	
airport_points	Point	Count	. 2	25.0		0				ı	

•	Substation CA	Point	Count	4	25.0	1,000	250	750		1		
	transin ca	Linear	Length (ft)	7,712	0.0	1,899	250	1,899	l			
	US Cell Towers	Point	Count	7,712	0.0	500	0	500	75,214	4,306	66	20.831
Mant Consuments Couth 2	Delta Roads PBSJ Major Roads	Linear	Length (ft)	3,073	25.0	1,014	254	761	75,214	4,000		20,001
West Sacramento South 2	Petroleum Pipelines	Linear	Length (ft)	2,537	0.0	533	204	533	254	o	0	1,293
Woodward Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	28,139	25.0	5,628	1,407	4,221	207	<u>`</u>		1,200
Woodward_Island	gas pipeline kinder morgan LS 9	Linear	Length (ft)	7,820	0.0	1,642	1,407	11,642	l	1		
	mokelumne_aqueduct_pipe	Linear	Length (ft)	23,350	0.0	116,749	8,873	11,042	10,280	o	0	5,863
Wright-Elmwood_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	9,701	25.0	1,940	485	1,455	10,200			0,000
Wight-Emimood_fract	Gas oil wells	Point	Count	2,701	0.0	1,540	705	1,455	l			
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	54	54	ň	l			
	Residential - Multi-Dwellings - 50+ unit		Count	1	100.0	43	43	ō	l	i		
		Point	Count	4	100.0	836	836	Ö				ŀ
	transin ca	Linear	Length (ft)	32,244	0.0	7.939	0	7.939	1,418	o	0	9,394
Yolo_Bypass	Commercial-Personal and Repair Serv		Count	2	35.0	2,238	783	1,455				
,	Commercial-Professional - Technical S		Count	1	100.0	4,617	4,617	0	l			
	Commercial-Retail Trade	Point	Count	1	38.0	1,885	716	1,169	l			
	Commercial-Wholesale Trade	Point	Count	4	32.0	10,151	3,248	6,903	ŀ			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	488	25.0	161	40	121	l			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	55,721	25.0	11,144	2,786	8,358	ı			
	gas oil production fields	Point	Area	906	0.0		2,7.00	0,000	l	1		
	Gas oil wells	Point	Count	37	0.0	-	o o	ō				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	i			
	Hwy HAZUS SDURS	Linéar	Length (ft)	4,232	25.0	1,397	349	1,048	l			
	NG Pipelines	Linear	Length (ft)	31,731	0.0	6,029	0	6,029	ı	1		
	Petroleum Pipelines	Linear	Length (ft)	9,808	0.0	2.060	0	2,060	I			
	Rail HAZUS SDURS	Linear	Length (ft)	8,045	25.0	2,293	573	1,720				
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	49.5	6	3	. 3	ı			
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	49.5	17	8	9	l			
	Residential - Single Family Dwelling	Point	Count	1	48.6	317	154	163	1			
	transin_ca	Linear	Length (ft)	32,873	0.0	8,094	0	8,094	13,779	11,201	61	27,429
Zone 120	Commercial-Retail Trade	Point	Count	1	26.0	177	46	131				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	12,876	25.0	4,249	1,062	3,187	ı	1		l I
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	24,822	25.0	4,964	1,241	3,723				
	gas_oil_production_fields	Point	Area	750	0.0	-	0	0	ŀ			
	Gas_oil_wells	Point	Count	19	0.0	-	0	0	I			i
	NG_Pipelines	Linéar	Length (ft)	6,993	0.0	2,273	0	2,273	l			
	NG_Wells	Point	Count	6	0.0		0	0	l			1
	Residential - Manuf. Housing	Point	Count	9	100.0	354	354	0	l			
	Residential - Single Family Dwelling	Point	Count	40	39.1	7,119	2,785	4,334	I			
	transin_ca	Linear	Length (ft)	7,868	0.0	1,937	0	1,937	5,489	4,465	78	
Zone 122	Residential - Single Family Dwelling	Point	Count	1	100.0	125	125	0	125	0	0	0
Zone 14	Gas_oil_wells	Point	Count	2	0.0	-	0	0	ŀ			
	NG_Pipelines	Linear	Length (ft)	2,272	0.0	432	0	432	0	0	0	432
Zone 148	Commercial-Retail Trade	Point	Count	1	42.0	53	22	31				·
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	354	25.0	117	29	88	l			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	15,957	25.0	3,191	798	2,393	ŀ			
	Gas_oil_wells	Point	Count	5	0.0	-	0	, 0	l			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	9,686	25.0	3,196	799	2,397	l.			
	Residential - Manuf. Housing	Point	Count	7	100.0	245	245	0	I			
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	124	124	0				
	Residential - Single Family Dwelling	Point	Count	28	100.0	3,692	3,692	0	ļ	į		
	Schools_HAZUS_SDURS	Point	Count	1	24.0	590	142	448	1	[
	trańsln_ca	Linear	Length (ft)	5,058	0.0	1,245	0	1,245	5,851	479	11	6,124
Zone 155	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	542	25.0	108	27	81				
	transin_ca	Linear	Length (ft)	769	0.0	189	0	189	27	0	0	271
Zone 158 (Smith Tract_2)	boatlaunch	Point	Count	1	0.0	100	0	100	7	\neg		
	Commercial-Personal and Repair Serv		Count	2	12.0	2,737	328	2,409	1			
	Commercial-Professional - Technical S		Count	1	16.0	2,652	424	2,228	1	ľ		
	Commercial-Retail Trade	Point	Count	1	14.0	4,322	605	3,717	i	ĺ		
	Commercial-Wholesale Trade Delta_Roads_PBSJ_Major_Roads	Point Linear	Count	6,756	8.0 25.0	3,830 2,230	306 557	3,524 1,672		1		
			Length (ft)									

												•
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	91,854	25.0	18,371	4,593	13,778				
	Hazmat_HAZUS_SDURS	Point	Count	8	0.0	-	0	0	-1			
	hc_ambulatory	Point	Count	2	11.0 0.0		0	<u>-</u>				
	hc_nursing_res Hwy Bridge HAZUS SDURS	Point Point	Count Count		25.0	18,000	4,500	13,500	j			
	Hwy HAZUS SDURS	Linear	Length (ft)	7,665	25.0	2,530	632	1,897				
	Residential - Duplex	Point	Count	44	22.5	12,596	2,834	9,762	Į.			
	Residential - Manuf. Housing	Point	Count	25	100.0	829	829	3,702	ŀ			
	Residential - Multi-Dwellings - 10 to 19		Count	1	22.5	50	11	39				
	Residential - Single Family Dwelling	Point	Count	1,295	20.8	179,718	37,291	142,427	ŀ			
	Residential - Triplex - Quads	Point	Count	53	22.5	15,983	3,596	12.387	l l			
	Schools HAZUS SDURS	Point	Count	1	7.0	590	41	549	1			
	Utilities	Point	Count	1	0.0		0	0	56,550	190,639	19,807	17,347
Zone 160	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	9,297	25.0	1,859	465	1,395				
	Residential - Single Family Dwelling	Point	Count	71	32.6	9,269	3,024	6,245	3,489	6,245	1,243	1,399
Zone 162	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,168	25.0	834	208	625				
	NG_Pipelines	Linear	Length (ft)	2.641	0.0	502	0	502	l l			
	Residential - Manuf, Housing	Point	Count	1	100.0	42	42	0	l l			
	Residential - Single Family Dwelling	Point	Count	10		2,138	933	1,205	1,183	1,205	81	1,127
Zone 171	Commercial-Retail Trade	Point	Count	1	18.0	35	6	29				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	6,865	25.0	2,265	566	1,699				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,990	25.0	798	199	598	l			
	gas_oil_production_fields	Point	Area	789	0.0		0	0	ŀ			
	Gas_oil_wells	Point	Count	14	0.0	-	Ö	0	İ			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500	1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,348	25.0	1,435	359	1,076	ŧ			
	NG_Pipelines	Linear	Length (ft)	15,490	0.0	5,034	0	5,034	Į.			
	Rail_HAZUS_SDURS	Linear	Length (ft)	4,827	25.0	1,376	344	1,032				
	Residential - Single Family Dwelling	Point	Count	3	29.3	514	150	364	3,125	4,892	89	9,440
Zone 185	Commercial-Personal and Repair Serv	Point	Count	1	13.0	1,409	183	1,226				
	Commercial-Professional - Technical S		Count	1	22.0	4,243	933	3,310	1			
	Commercial-Retail Trade	Point	Count	1	16.0	715	114	601	1			
	Delta Roads PBSJ_Minor_Roads	Linear	Length (ft)	100,662	25.0	20,132	5,033	15,099				
	Gas_oil_wells	Point	Count	1	0.0		0	0				
	hc_nursing_res	Point	Count	4	16.0		0	0	1	*		
	Hwy Bridge HAZUS SDURS	Point	Count	3	25.0	6,000	1,500	4,500				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	3,862	25.0	1,275	319	956				
	Residential - Duplex	Point	Count	43	25.5	10,969	2,797	8,172				
	Residential - Institutional Dormitory	Point	Count	5	14.0	23,034	3,225	19,809				
	Residential - Manuf. Housing	Point	Count	10		316	316	0	1			
	Residential - Multi-Dwellings - 10 to 19		Count	. 1	25.5	532	136	396				
		Point	Count	1	25.5	16,268	4,148	12,120				
	Residential - Single Family Dwelling	Point	Count	2,234	25.8	427,503	110,082	317,421				
	Residential - Triplex - Quads Residential - Nursing Home	Point Point	Count	7	25.5 14.0	2,573 5,740	656 804	1,917 4,936	l			
	Schools HAZUS SDURS	Point	Count Count	2	14.0	5,740 590	804 65	4,936 525	130,311	374,932	28,635	10.05
Zone 186	transin ca	Linear	Length (ft)	13,335	0.0	3,283	00	3,283	130,311	314,832	∠0,035	16,055 3,283
Zone 197	Commercial-Professional - Technical S		Count	13,335	100.0		<u> </u>	ა,∠ია		U	U	3,28
ZUIIE 191	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count	1	100.0	28	28	<u> </u>				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,871	25.0	1,607	402	1,206				
	Delta Roads PBSJ Minor Roads Delta Roads PBSJ Minor Roads	Linear	Length (ft)	28,956	25.0	5,791	1,448	1,206 4,343	I			
	Gas oil wells	Point	Count (11)	28,956	0.0	5,791	1,448	4,343	l			
	Hwy HAZUS SDURS	Linear	Length (ft)	35,964	25.0	11,868	2,967	8,901	l			
	NG Pipelines	Linear	Length (ft)	5,539	0.0	1,800	2,507	1,800	ŀ			
	Rail 1000 nodes	Point	Count	3,039	0.0	1,000	 	1,800	ŀ			
	Residential - Manuf. Housing	Point	Count	15	100.0	518	518	- 0	į			
	Residential - Multi-Dwellings - 10 to 19		Count	10	100.0	260	260	, , , , ,	ŀ			
	Residential - Mutti-Dwellings - 10 to 19	Point	Count	55	100.0	7,749	7,749	- 0	13,374	0	0	16,25
Zone 206	bridges not in HAZUS	Point	Count	2	25.0	2,000	500	1,500	13,374		U	10,25
2016 200	Commercial-Entertainment and Recrea		Count	2	14.0	1,716	240		ļ			
	Commercial-Personal and Repair Serv		Count	2	16.0	1,718	280	1,476 1,473				
	Commercial-Professional - Technical S		Count	4	28.0	1,753	468	1,473				

_												
	Commercial-Retail Trade	Point	Count	1	18.0	875	158	718				
	Commercial-Wholesale Trade	Point	Count	2	13.0	3,378	439	2,939				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	5,591	25.0	1,845	461	1,384				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,483	25.0	1,497	374	1,122				
	Elec_Power_HAZUS_SDURS	Point	Count	1	49.0	129,800	63,602	66,198				
	gas_oil_production_fields	Point	Area	112	0.0	· · · · · · · · · · · · · · · · · · ·	0	0				
1	Gas_oil_wells	Point	Count		0.0		0					
	Government - General Services	Point	Count	1	14.0	587	82	505				
	Hazmat_HAZUS_SDURS	Point	Count	28	0.0		4 000	<u> </u>				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	4,990	0.0	24,948	1,896	0				
	Oil_HAZUS_SDURS	Point	Count	50.444	20.0	118	24	94				
	Petroleum Pipelines	Linear	Length (ft)	56,141	0.0	11,790	0	11,790				
	Rail_1000_nodes	Point	Count	44.000	0.0 25.0	4 407	<u>~</u>	2444				
	Rail_HAZUS_SDURS	Linear	Length (ft)	14,693	25.0 15.0	4,187 3,144	1,047 472	3,141 2,672				
	Residential - Institutional Dormitory	Point Linear	Count	9,174	0:0	2,259	4/2	2,072	70,043	78,778	1.705	19,695
7 007	transin_ca		Length (ft)				0		70,043	10,110	1,703	19,030
Zone 207	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,101	25.0	1,020	255	765				
	Petroleum Pipelines	Linear Linear	Length (ft)	2,447 20,443	0.0 25.0	514 5,826	1,457	514 4,370	1,712	o		5,649
7000 244	Rail_HAZUS_SDURS		Length (ft)	20,443	0.0	5,826	1,457	4,370	1,712	U	<u> </u>	5,049
Zone 214	gas_oil_production_fields	Point	Area	1/2	0.0		0	 	l			
	Gas_oil_wells	Point	Count		0.0	269	0	269	į			
	NG_Pipelines NG Wells	Linear Point	Length (ft) Count	1,418	0.0	209	0		o	O	0-	269
7ana 946	Gas oil wells				0.0		0	. 0	- 0		0	209
Zone 216		Point Point	Count Count	2	43.6	467	204	263	204	263	72	0
7 04	Residential - Single Family Dwelling				32.6						118	0
Zone 31	Residential - Single Family Dwelling	Point	Count	2	32.6	430	140	290	140	290		
Zone 33	Residential - Single Family Dwelling	Point	Count	1		163	53	110	53	110	62	0
Zone 36		Point	Count	1	16.0	19	3	16	ı			
	Commercial-Retail Trade	Point	Count	1	14.0	42	6	36				
ļ	Delta Roads PBSJ Major Roads	Linear	Length (ft)	458	25.0	151	38	113				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,556	25.0	711	178	533				
	Hwy_HAZUS_SDÚRS	Linear	Length (ft)	782	25.0	258	65	194	l		-	
			Count	1	22.5	17	4	13				
	Residential - Single Family Dwelling	Point	Count	21	20.8	4,753	986	3,767			-	
	solid_waste_facilities	Point	Count	1	25.0 0.0		0	0	4 070	0.000	004	
	transin_ca	Linear	Length (ft)	3,946		971	0	971	1,279	3,832	661	1,812
Zone 37	Commercial-Entertainment and Recrea		Count	1	11.0	1,771	195	1,576	ŀ			
	Commercial-Personal and Repair Serv		Count	2	12.0	2,071	249	1,822	İ			
	Commercial-Professional - Technical S		Count	1	16.0	5,148	824	4,324				
	Commercial-Retail Trade	Point	Count	1	14.0	1,902	266	1,636	İ			
	Commercial-Wholesale Trade	Point	Count		8.0	2,219	178	2,041	ļ			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,472	25.0	1,476	369	1,107	1			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	15,211	25.0	3,042	761	2,282	l			
	hc ambulatory	Point	Count	1	14.0		0	0	İ			
	Hwy HAZUS SDURS	Linear	Length (ft)	388	25.0	128	32	96	Ì			
	Industrial - Heavy	Point	Count	3	12.0	7,499	900	6,599	1			
	Industrial - Light	Point	Count	1	14.0	2,336	327	2,009	ļ			
	Intermodal_terminal_facilities	Point	Count		0.0	4.546	0	0	ł			
	Petroleum Pipelines	Linear	Length (ft)	7,203	0.0	1,513	0	1,513	ŀ			
	Rail_1000_nodes	Point	Count	1	0.0	2.570	0	0 570	ł			
	Rail_Facility_HAZUS_SDURS	Point	Count		0.0	2,572	0	2,572	ŀ			
	Rail HAZUS SDURS	Linear	Length (ft)	6,428	25.0 22.5	1,832	458	1,374				
	Residential - Duplex	Point	Count	10		2,862	644 5 254	2,218				
	Residential - Manuf. Housing	Point	Count	154	100.0	5,254	5,254	Ų,				ŀ
	Residential - Multi-Dwellings - 10 to 19		Count	1	22.5	1,365	307	1,058	1			
	Residential - Multi-Dwellings - 20 to 49		Count	1	22.5	5,734	1,290	4,444	j			
	Residential - Multi-Dwellings - 5 to 9 ur		Count	4	22.5	6,740	1,517	5,224	-			
	Residential - Multi-Dwellings - 50+ unit		Count	1	22.5	1,789	403	1,386	1			
		Point	Count	206	20.8	32,153	6,672	25,481	1			
	Residential - Triplex - Quads	Point	Count	10	22.5	2,779	625	2,154				
	Waste_Water_HAZUS_SDURS water_trans	Point Point	Count Count	1 2	0.0	78,588	0 0	23,576	21,268	88.122	7.355	6,371
			n anno	. 21	U.UI	- 1	f10	. ()				

one 38	Commercial-Entertainment and Recrea		Count	1	12.0	1,367	164		1.	1	1	
	Commercial-Personal and Repair Serv		Count	3		3,204	417		· [*			
	Commercial-Professional - Technical S		Count	1	22.0	2,104			ľ	1	ľ	
	Commercial-Retail Trade Commercial-Wholesale Trade	Point Point	Count Count	1	16.0 11.0	2,043 6,617	327 728				ŀ	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	2,630		868	217				İ	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	15,931	25.0	3,186			į.		ł	
	Education - Colleges - Universities		Count	10,001	9.0	5,278			İ			
	Hazmat HAZUS SDURS	Point	Count	2	0.0	-	1					
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	0.0	2,000		2,000	1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	1,607		530			1		1	
		Point	Count	1	19.0						i	
	Industrial - Heavy	Point	Count	1	15.0	1,562	234					
	NG_Pipelines	Linear	Length (ft)	874	0.0	166	9					
	Petroleum Pipelines	Linear	Length (ft)	80,209		16,844]		1	
	Port_HAZÚS_SDURS Ráil 1000 nodes	Point Point	Count	1	0.0	2,572		21012	l	1	ł	
	Rail_facility_HAZUS_SDURS	Point	Count	1	0.0	2,572	1 - 7		ļ	l		
	Rail HAZUS SDURS	Linear	Length (ft)	26,920	25.0	7,672	1,918	~,0,2			1	
	Residential - Duplex	Point	Count	6	25.5	1,104	282		l		- 1	
	Residential - Multi-Dwellings - 10 to 19		Count	1	25.5	124	32		j	1	- 1	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	1	25.5	548	140	408	1		- 1	
		Point	Count	34		5,907	1,521		J	1	j	
	transin_ca	Linear	Length (ft)	1,578		389	C		8,562	35,273	5,416	26,591
one 64		Point	Count	1	16.0	252	40					
	Commercial-Retail Trade	Point	Count	1	14.0	222	31		l			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	240 170		48	12					
	gas_oil_production_fields Gas_oil_wells	Point Point	Area Count	170	0,0	<u> </u>	· · · · · · · · · · · · · · · · · · ·					
	Hwy_HAZUS_SDURS	Linear	Length (ft)	3,245	25.0	1,071	268	,				
	Industrial - Construction	Point	Count	3,243	31.0	1,152	357					
	NG Pipelines	Linear	Length (ft)	2,174	0.0	413	307					
	Residential - Manuf. Housing	Point	Count	2	100.0	95	95		·	i		
	Residential - Single Family Dwelling	Point	Count	20		3,581	743		1,546	4,035	3,517	1,252
one 65	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	1,749	25.0	350	87	262	87	0	0	262
one 69	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,234	25.0	847	212	635				
	gas_oil_production_fields	Point	Area	17	0.0	-	, ,				j i	
	Gas_oil_welfs	Point	Count	2	0.0		C	-	212	0	0	635
one 74	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,313	25.0	1,423	356					
	Delta Roads PBSJ Minor Roads gas oil production fields	Linear Point	Length (ft) Area	21,041 505	25.0	4,208	1,052		1		ļ	
	Gas oil wells	Point	Count	19	0.0				1		j	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	2,003	25.0	661	165		1			
	NG Pipelines	Linear	Length (ft)	6,878	0.0	1,307	100					
	Petroleum Pipelines	Linear	Length (ft)	2,062	0.0	433	Č		1	1		
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,055	25.0	586	146		[1		
		Point	Count	1	32.0	37	12	25	ŀ			
			Count	1	32.0	105	34		ŀ			
		Point	Count	7	32.6	1,389	453					
	transln_ca	Linear	Length (ft)	7,333	0.0	1,805	C		2,218	1,032	29	8,704
one 75	bridges_not_in_HAZUS	Point	Count	2	25.0	2,000	500					
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	424	25.0	140	35					
	Delta_Roads_PBSJ_Minor_Roads Gas_oil_wells	Linear Point	Length (ft)	17,385	25.0 0.0	3,477	869		1		į	
			Count Length (ft)	6,026	25.0	1,989	497		1	1		
	Residential - Manuf. Housing		Count	0,026	100.0	1,989	497 52		1	1		
	Residential - Multi-Dwellings - 10 to 19		Count	1	45.5	28	13		1	1		
	Residential - Multi-Dwellings - 50+ unit		Count	1	45.5	154	70		1	- 1		
			Count	29		6,060	2,644			- 1		
	solid_waste_facilities		Count	1	25.0		2,511		4,680	5,016	133	4,204
one 77	Commercial-Professional - Technical S		Count	-1	16.0	132	21	111				.,201
		V	Count	· · · · · · · · · · · · · · · · · · ·	14.0	103	14					

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1	Delta Roads PBSJ Major Roads	Linear	Length (ft)	8,434	25.0	2,783	696	2,087	1		I	1 1
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,010	25.0	402	101	302			•	
	Rail HAZUS SDURS	Linear	Length (ft)	4,345	25.0	1,238	310	929				ļ
	Residential - Multi-Dwellings - 10 to		Count	1	22.5	6		5				
	Residential - Multi-Dwellings - 50+ u		Count	1	22.5	110	25	85				
	Residential - Single Family Dwelling		Count	19		3,915	812	3,103			Ì	
	transin ca	Linéar	Length (ft)	4,318	0.0	1,063	0.2	1,063	1,980	3,392	441	4,381
Zone 78	bridges not in HAZUS	Point	Count	3	25.0	3,000	750	2,250				1,122.
zone ro	Commercial-Professional - Technica		Count	<u> </u>	38.0	77	29	48	•		İ	
	Commercial-Retail Trade	Point	Count	1	23.0	31	7	24				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	4,346	25.0	1,434	359	1.076				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	5,202	25.0	1,040	260	780				
	Gas oil wells	Point	Count	2,202	0.0	1,040	200					
	Hwy HAZUS SDURS	Linear	Length (ft)	5,141	25.0	1,697	424	1,272				
	NG Pipelines	Linear	Length (ft)	51	0.0	17	727	17				
	Rail HAZUS SDURS	Linear	Length (ft)	2,167	25.0	618	154	463				
	Residential - Multi-Dwellings - 10 to		Count	2,107	38.5	15	134	403				
	Residential - Multi-Dwellings - 50+ u		Count		38.5	123	47	76				:
	Residential - Single Family Dwelling		Count	24	37.0	4,636	1,715	2,921	•			
	transin ca	Linear	Length (ft)	2,257	0.0	556	1,715	556	3,752	5,327	147	4,164
Zone 79	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	15,349	25.0	3,070	767	2,302	3,132	0,021	147	4,104
2011G 1 3	Gas oil wells	Point	Count	15,349	0.0	3,070	707	2,302	l			1 1
	Hwy Bridge HAZUS SDURS	Point	Count		25.0	2,000	500	1,500	l			
	NG Pipelines	Linear		4,899	0.0	931	500	931	į.			
	Residential - Single Family Dwelling		Length (ft) Count	4,099	32.6	287	94	193	1,361	1,693	68	3,233
Zone 80				2,593	25.0	856	214		1,301	1,053	00	3,233
2016 00	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear	Length (ft)	14,460	25.0 25.0		723	2,169				
	gas oil production fields	Linear Point	Length (ft) Area	514	0.0	2,892	123	∠,169				
	Gas oil wells	Point	Count	6	0.0		0					
	Hwy Bridge HAZUS SDURS			0	25.0	2.000	500	1,500				
	NG Pipelines	Point	Count	6,090	0.0	1,157	500	1,157				
	NG Wells	Linear Point	Length (ft)	6,090	0.0	1,107	0					
	Petroleum Pipelines	Linear		1.030	0.0	216	0				· ·	
	Residential - Single Family Dwelling		Length (ft)	1,030	29.3	225	66					
	transin ca	Linear	Length (ft)	2,416	29.3	595	00	159 595	1,503	1,659	57	4 770
Zone 81									1,503	1,009	31	4,779
2016 01	Delta_Roads_PBSJ_Minor_Roads Gas_oil_wells	Linear	Length (ft)	9,356 6	25.0	1,871	468	1,403			ŀ	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	9	0.0	2,000	0	4.500				l i
		Point	Count	F 100	25.0		500					
	NG_Pipelines NG_Wells	Linear	Length (ft)	5,160	0.0	980	0	980				
		Point	Count		100.0	20	0					
	Residential - Manuf, Housing Residential - Single Family Dwelling	Point Point	Count	5	37.0	920	20 340	580	4 220	2.080	۱ 40	0.004
Zone 82	Delta Roads PBSJ Major Roads			,					1,328	2,080	49	2,384
2011e 82		Linear	Length (ft)	3,108 703	25.0 25.0	1,026	256	769				
	Delta Roads PBSJ Minor Roads Hwy HAZUS SDURS	Linear	Length (ft)			141	35	105	1			
		Linear Linear	Length (ft)	3,110	25.0 0.0	1,026	257	770				
	NG_Pipelines		Length (ft)	10,954 2,387	0.0	2,081	0	2,081	548		l ,	
Zone 90	transin_ca	Linear	Length (ft)	2,307		769	0		548	0	0	4,494
20ne 90	Commercial-Professional - Technica		Count		22.0	172	38	134				
	Commercial-Retail Trade	Point	Count	2 222	16.0	905	145	760				1
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	9,390	25.0	3,099	775	2,324				1
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,262	25.0	2,852	713	2,139				
	Hazmat HAZUS SDURS	Point	Count	33	0.0		0	<u> </u>				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500	I			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,140	25.0	1,366	342	1,025	l			
	Industrial - Food - Drugs - Chemical		Count		19.0	4,194	797	3,397	l			
	Oil_HAZUS_SDURS	Point	Count	1	20.0	118	24	94	Į.]
	Petroleum Pipelines	Linear	Length (ft)	119,148	0.0	25,021	0	25,021	I			
	Rail_HAZUS_SDURS	Linear	Length (ft)	9,484	25.0	2,703	676	2,027	İ			{
	Residential - Single Family Dwelling		Count	38	25.8	7,012	1,806	5,206				
	solid_waste_facilities	Point	Count	3	0.0		0	0				
	TankFarms	Point	Count	<u> 1</u>	0.0	3,000	0	3,000			<u>.</u>	
	transin_ca	Linear	Length (ft)	7,135	0.0	1,757	0	1,757	6,814	17,092	500	34,293

Table 7- 4a: Estimate of Asset Cost Damage and Repair Times- Mean Higher High Water - (MHHW) - 2050

1	2	3	4	5	6	7	8	9	10	11
Island Name	Asset Type	Inventory Unit	Quantity (Expected 2050)	Expected Inundation Depth (2050 Conditions)	Percent Damage	Total Asset Value (Structure + Conents) (\$1,000)	Total Inundation Repair Costs (Structure + Contents + Debris) (\$1,000)	Per Island Inundation Repair Costs (\$1000)	Per Island Asset Value (\$1000)	Repair Time (Months)
Bacon_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,655	23	25.0	7,531	2,071			(
	NG_Pipelines_DWR	Length (ft)	28,289	23	0.0	8,628	0			
	PBSJ_Gas_Oil_Wells	Count	8	23	•	0	- 0			
	Residential - Institutional Dormitory	Count	5	23	100.0	27,758	29,515	31,587	43,917	24
Bethel_Island	Boatlaunch	Count	6	3	100.0	600				
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	273,225	13	25.0	54,645	15,027			
	NG_Pipelines_DWR	Length (ft)	23,384	13	0.0		0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	722	13	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	24	11	•	0	0			
	Residential - Duplex	Count	13	13	100.0	6,441	6,848]		. 2
	Residential - Manufactured Housing	Count	785	13	100.0	40,168	41,681	ŀ		24
	Residential - Single Family Dwelling	Count	1,206	13	100.0	331,005	351,969			24
	Residential- Multi- Dwellings- 20 to 49 unit		2	16	100.0	2,430	2,584			24
	Solid_Waste _Facilities	Count	2	3	25.0	0	0	1		
	Utilities_ESRI	Count	2	9	-	0	0	1		
	water_trans	Count	4	9	0.0	0	0	418,770	439,732	
Bishop_Tract	Boatlaunch	Count	1	2	100.0		110			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	38,810	9	25.0	7,762	2,135			(
	PBSJ_Gas_Oil_Wells	Count	1	2	_	0	0			
	PBSJ_Substation	Count	1	2	25.0	1,000	275			(
	Residential - Single Family Dwelling	Count	5	9	46.6	1,499	845			2:
	Transmission Line	Length (ft)	32,039	9	-	7,888	0	3,365	18,249	(
Bixler_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	240	3	25.0	48				(
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	82	3	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	3	1	•	0	0			
	Residential - Single Family Dwelling	Count	4	3	25.8	1,212	367	380	1,260	
Bouldin_Island	air_trans	Count	1	20	-	0	0			(
	Commercial- Professional/ Technical Serv	Count	1	21	100.0	7,584	8,342			18
	Commercial- Retail Trade	Count	1	21	100.0	1,188	1,307			11
	Delta_Roads_PBSJ_Major Roads	Length (ft)	1,506	21	25.0	497	137	l		(
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	43,282	21	25.0	8,656	2,381			
	Hwy_HAZUS_SDURS	Length (ft)	24,159	21	25.0	7,972	2,192			,
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	103	21	0.0	0	0			(
	PBSJ_Gas_Oil_Wells	Count	17	20	•	0	0			
	Utilities_ESRI	Count	1	1.	-	0	0	14,359	25,898	(

No. Pipelines DWR	Brack_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	62,658	14	25.0	12,532	3,446			6
PSS_Case_Ol_Wells								0			0
Residential - Manufactured Housing								0			0
Bradford Sland Della Roads PSJS Minor Roads Length (ft) 57,920 18 25.0 11,843 3,185 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967 1,967						100.0	798	828			24
Delta Roade PBSJ Minor Roads Length (ft) 57,920 18 25.0 11,884 3,186 NG Polelines DWR Length (ft) 7,466 18 0.0 2,165 0 PBSJ Gas Oil Production Fields Area (Acres) 897 18 0.0 0 0 0 0 PBSJ Gas Oil Production Fields Area (Acres) 897 18 0.0 0 0 0 0 0 0 0 0									5.608	19.967	
NG Pipelines DWR	Bradford Island			57,920		25.0			-,		6
PBSJ. Gas. Oil Production Fields							2.165	0			0
PBSJ Gas Oil Wells						0.0	Ö	0			0
Residential - Duplex Count 1 18 100.0 219 233 Residential - Single Family Dwelling Count 9 18 100.0 244 461 Residential - Single Family Dwelling Count 27 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 7,218 7,675 11,554 21,630 31 17 18 100.0 1,000 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100 1,100		PBSJ Gas Oil Wells					ō	0			0
Residential - Manufactured Housing Residential - Single Family Dwelling Count						100.0	219	233			24
Residential - Single Family Dwelling				9		100.0	444				24
Brannan-Andrus Island				27		100.0			11,554	21,630	
Boatlaunch Count 10 5 100.0 1,000 1,100 Commercial - Entertainment and Recreatic Count 2 20 100.0 1,5,944 6,582 Commercial - Professional/ Technical Serv Count 2 20 100.0 1,5,264 16,790 Commercial - Retail Trade Count 2 20 100.0 10,952 12,047 Delia, Roads PBSJ Milajor Roads Lergth (ft) 28,339 20 25,0 63,062 2,338 Delia, Roads PBSJ Milajor Roads Lergth (ft) 28,339 20 25,0 63,062 2,338 Delia, Roads PBSJ Milajor Roads Lergth (ft) 25 5 0.0 4,000 0 0 1 1 1 1 1 1 1	Brannan-Andrus Island				2	•	0	0	,		0
Commercial - Entertainment and Recreath Count 2 20 100.0 5,984 6,582						100.0	1 000	1.100			Ö
Commercial- Professional/ Technical Serv Count				2							0
Commercial- Retail Trade				2							18
Delfa Roads PBSJ Major Roads Length (ft) 28,339 20 25.0 8,502 2,338 Delfa Roads PBSJ Minor Roads Length (ft) 315,922 20 25.0 63,184 17,376 hc hospitals Count 2 2 0.0 0 0 0 0 0 0 0 0				2							18
Delta Roads PBSJ Minor Roads Length (ft) 315,922 20 25.0 63,184 17,376 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076 17,076				28.339					-		6
Inc. hospitals											6
Hwy Bridge HAZUS SDURS Length (ft) 2 5 0.0 4.000 0 Hwy HAZUS SDURS Length (ft) 55,613 20 25.0 18,352 5,047 NG Pipelines DWR Length (ft) 75,806 20 0.0 17,814 0 NG Wells DWR Not in PBSJ Count 2 27 - 0 0 0 PBSJ Gas Oil Production Fields Area (Acres) 9,089 20 0.0 0 0 0 PBSJ Gas Oil Production Fields Area (Acres) 9,089 20 0.0 0 0 0 Residential - Duplex Count 8 20 100.0 5,212 5,542 Residential - Manufactured Housing Count 356 20 100.0 18,442 19,137 Residential - Milti-Dwellings - 5 to 9 units Count 2 20 100.0 7,158 7,611 Residential - Single Family Dwelling Count 365 20 100.0 7,720 83,705 Residential - Milti-Dwellings - 10 to 19 unit Count 2 20 100.0 4,172 4,436 Residential - Milti-Dwellings - 10 to 19 unit Count 2 20 100.0 1,404 1,236 Solid Waste Facilities Count 2 27 25.0 0 0 Transmission Line Length (ft) 19,080 20 - 4,698 0 water trans Count 3 9 0.0 0 0 182,948 264,858 Browns_Island Hazmat_HAZUS_SDURS Count 2 3 - 0 0 0 Byron_Tract 1 Delta Roads PBSJ Minor Roads Length (ft) 5,459 13 25.0 1,801 495 PBSJ Gas_Oil Wells Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 3 3 25.0 1,801 495 PBSJ Gas_Oil Wells Count 2 3 - 0 0 0 Residential - Single Family Dwelling Count 3 13 100.0 2,570 2,733 Sewage Treat Count 2 15 15.0 200,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 Didges not in HAZUS Count 2 6 38.0 1,892 1,218 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Professional/ Technical Serv Count 2 6 23.0 408 229 Delta Roads PBSJ Minor Roads Length (ft) 12,789 6 25.0 2,558 703				2	2	0.0		0			0
Hwy HAZUS SDURS Length (ft) 55,613 20 25.0 18,352 5,047 NG Pipelines DWR Length (ft) 75,806 20 0.0 17,814 0 NG Wells DWR Not in PBSJ Count 2 27 - 0 0 PBSJ Gas Oil Production Fields Area (Acres) 9,089 20 0.0 0 0 PBSJ Gas Oil Wells Count 157 15 - 0 0 Residential - Duplex Count 8 20 100.0 5,212 5,542 Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 71,788 7,611 Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 78,720 83,705 Residential - Triplex-Quads Count 4 20 100.0 4,172 4,436 Residential - Triplex-Quads Count 4 20 100.0 4,172 4,436 Residential - Multi-Dwellings - 10 to 19 unit Count 2 20 100.0 4,172 4,436 Residential - Multi-Dwellings - 10 to 19 unit Count 2 20 100.0 4,172 4,436 Residential - Multi-Dwellings - 10 to 19 unit Count 2 17 25.0 0 0 Transmission Line Length (ft) 19,080 20 - 4,698 0 water_trans Count 3 9 0.0 0 0 182,948 264,858 Browns_Island Hazmat_HAZUS_SDURS Count 1 3 25.0 0 0 0 0 Byron_Tract 1 Delta Roads_PBSJ_Minor_Roads Length (ft) 20,959 13 25.0 4,192 1,153 Hwy HAZUS_SDURS Count 1 3 25.0 4,192 1,153 Hwy HAZUS_SDURS Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 1 3 25.0 4,192 1,153 Sewage_Treat Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 1 13 100.0 2,570 2,733 Sewage_Treat Count 2 15 15.0 200,000 37,596 218,370 Byron_Tract 2 Delta Roads_PBSJ_Minor_Roads Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Commercial-Professional/Technical Serv Count 2 6 38.0 1,892 1,218 Commercial-Professional/Technical Serv Count 2 6 38.0 1,892 1,218 Commercial-Professional/Technical Serv Count 2 6 23.0 408 229 Delta Road				2	5	0.0	4,000	0			. 0
NG Pipelines DWR				55,613	20	25.0		5,047			3
NG Wells DWR Not in PBSJ Count 2 27 - 0 0				75,806	20	0.0	17,814	0			0
PBSJ Gas Oil Production Fields		NG Wells DWR Not in PBSJ		2	27	-	0	0			0
Residential - Duplex Count 8 20 100.0 5,212 5,542 Residential - Manufactured Housing Count 356 20 100.0 18,442 19,137 Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 7,158 7,611 Residential - Single Family Dwelling Count 365 20 100.0 78,720 83,705 Residential - Triplex-Quads Count 4 20 100.0 4,172 4,436 Residential-I Triplex-Quads Count 2 20 100.0 4,172 4,436 Residential-I Multi-Dwellings - 10 to 19 unit Count 2 20 100.0 1,404 1,236 Solid_Waste_Facilities Count 2 17 25.0 0 0 Transmission Line Length (ft) 19,080 20 - 4,698 0 Water_trans Count 3 9 0.0 0 0 0 182,948 264,858 Browns_Island Hazmat_HAZUS_SDURS Count 2 3 - 0 0 0 0 Byron_Tract 1 Delta_Roads_PBSJ_Minor_Roads Length (ft) 20,959 13 25.0 4,192 1,153 Hwy_HAZUS_SDURS Length (ft) 5,459 13 25.0 4,192 1,153 Residential - Manufactured Housing Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 11 13 100.0 2,570 2,733 Sewage_Treat Count 2 15 15.0 200,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 0 37,596 218,370 Byron_Tract 2 bridges not in HAZUS Count 5 3 0.0 5,000 0 Commercial - Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial - Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703			Area (Acres)	9,089	20	0.0	Ö	0			0
Residential - Manufactured Housing Count 356 20 100.0 18,442 19,137 Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 7,158 7,611 Residential - Single Family Dwelling Count 365 20 100.0 78,720 83,705 Residential - Triplex-Quads Count 4 20 100.0 4,172 4,436 Residential - Multi- Dwellings - 10 to 19 unit Count 2 20 100.0 1,404 1,236 Solid_ Waste_Facilities Count 2 27 25.0 0 0 Transmission Line Length (ft) 19,080 20 - 4,698 0 water_trans Count 3 9 0.0 0 0 182,948 264,858 Browns_Island Hazmat_HAZUS_SDURS Count 2 3 - 0 0 0 Solid_ Waste_Facilities Count 1 3 25.0 0 0 0 0 Byron_Tract 1 Delta_Roads_PBSJ_Minor_Roads Length (ft) 20,959 13 25.0 4,192 1,153 Hwy_HAZUS_SDURS Length (ft) 5,459 13 25.0 1,801 495 PBSJ_Gas_Oil_Wells Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 3 13 100.0 207 215 Residential - Manufactured Housing Count 11 13 100.0 2,570 2,733 Sewage_Treat Count 2 15 15.0 20,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv (Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703		PBSJ Gas Oil Wells	Count	157	15	-	0	0			0
Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 7,158 7,611 Residential - Single Family Dwelling Count 365 20 100.0 78,720 83,705 Residential - Triplex-Quads Count 4 20 100.0 4,172 4,436 Residential - Multi- Dwellings - 10 to 19 unit Count 2 20 100.0 1,404 1,236 Solid Waste Facilities Count 2 17 25.0 0 0 Transmission Line Length (ft) 19,080 20 - 4,698 0 water trans Count 3 9 0.0 0 0 182,948 264,858 Browns_Island Hazmat HAZUS_SDURS Count 2 3 - 0 0 0 Solid_Waste Facilities Count 1 3 25.0 0 0 0 0 Solid_Waste Facilities Count 1 3 25.0 4,192 1,153 Hay_HAZUS_SDURS Length (ft) 5,459 13 25.0 4,192 1,153 Hay_HAZUS_SDURS Length (ft) 5,459 13 25.0 1,801 495 PBSJ_Gas_Oil_Wells Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 2 3 - 0 0 0 Residential - Manufactured Housing Count 11 13 100.0 2,570 2,733 Sewage_Treat Count 2 15 15.0 200,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 Dridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 33.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703		Residential - Duplex	Count	8	20	100.0	5,212	5,542			24
Residential - Multi-Dwellings - 5 to 9 units Count 2 20 100.0 7,158 7,611		Residential - Manufactured Housing	Count	356	20	100.0	18,442	19,137			24
Residential - Triplex-Quads			Count	2	20	100.0	7,158	7,611			24
Residential- Multi- Dwellings- 10 to 19 unit Count 2 20 100.0 1,404 1,236		Residential - Single Family Dwelling	Count	365	20	100.0	78,720	83,705			24
Residential- Multi- Dwellings- 10 to 19 unit Count 2 20 100.0 1,404 1,236		Residential - Triplex-Quads	Count	4	20	100.0	4,172	4,436			24
Solid_Waste_Facilities		Residential- Multi- Dwellings- 10 to 19 unit	Count	. 2	20	100.0	1,404	1,236			18
Water_trans				2	17	25.0	0	0			0
Browns_Island		Transmission Line	Length (ft)	19,080	20			0			0
Solid_Waste_Facilities Count 1 3 25.0 0 0 0 0 0		water_trans	Count	3	9	0.0	0	Ó	182,948	264,858	0
Delta Roads PBSJ Minor Roads Length (ft) 20,959 13 25.0 4,192 1,153	Browns_island	Hazmat_HAZUS_SDURS	Count	2	3	-		0			0
Hwy_HAZUS_SDURS		Solid_Waste _Facilities	Count	1	3	25.0	0	0	0	0	0
PBSJ Gas_Oil Wells	Byron_Tract 1	Delta Roads PBSJ Minor Roads	Length (ft)	20,959	13	25.0	4,192	1,153			6
PBSJ Gas_Oil Wells		Hwy HAZUS SDURS	Length (ft)	5,459	13	25.0	1,801	495			3
Residential - Single Family Dwelling Count 11 13 100.0 2,570 2,733 Sewage_Treat Count 2 15 15.0 200,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703			Count	2	3	-	Ö	0			0
Sewage_Treat Count 2 15 15.0 200,000 33,000 Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703		Residential - Manufactured Housing	Count	3	13	100.0	207	215			24
Transmission Line Length (ft) 29,816 13 - 9,600 0 37,596 218,370 Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703		Residential - Single Family Dwelling	Count	11	13	100.0	2,570	2,733			24
Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703		Sewage Treat	Count	2	15	15.0	200,000	33,000			6
Byron_Tract 2 bridges_not_in_HAZUS Count 5 3 0.0 5,000 0 Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703			Length (ft)	29,816	13	-	9,600	o	37,596	218,370	0
Commercial- Professional/ Technical Serv Count 2 6 38.0 1,892 1,218 Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703	Byron_Tract 2	bridges_not_in_HAZUS		5.	3	0.0	5,000	ol			0
Commercial- Retail Trade Count 2 6 23.0 408 229 Delta_Roads_PBSJ_Minor_Roads Length (ft) 12,789 6 25.0 2,558 703	- -			2	6			1,218			14
Delta_Roads_PBSJ_Minor_Roads				2							8
				12.789	6						6
production within actual culticular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular popular po		Residential - Manufactured Housing	Count	3	6	100.0	142	144]		24
Residential - Single Family Dwelling Count 17 6 37.0 5,266 2,352				17							18

	Transmission Line	Length (ft)	25,356	6	- I	8,164	0	4,646	23,429	0
Cache_Haas_Tract 1	Delta Roads PBSJ Minor Roads	Length (ft)	79,382	3	25.0	15,876	4,366			6
	NG Pipelines DWR	Length (ft)	5,756	3	0.0	1,094	0			C
	PBSJ Gas Oil Production Fields	Area (Acres)	1,150	3	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	18	2	-	0	0			0
	Residential - Single Family Dwelling	Count	1	3	25.8	174	53			. 12
	Transmission Line	Length (ft)	13,005	3	-	4,187	0	4,419	21,331	0
Cache Haas Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,203	4	25.0	1,841	506			6
	Hwy HAZUS SDURS	Length (ft)	2,392	5	25.0	789	217			3
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	603	4	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	20	5	-	0	0			0
	Residential - Manufactured Housing	Count	1	5	100.0	30	30			24
	Residential - Single Family Dwelling	Count	5	5	29.3	1,373	481			14
	Transmission Line	Length (ft)	567	4	-	183	0	1,234	4,215	0
Canal Ranch	Commercial- Professional/ Technical Serv	Count	3	11	100.0	8,586	8,500			18
	Commercial- Retail Trade	Count	3	11	42.0	5,634	3,780			15
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	34,708	11	25.0	6,942	1,909			6
	Hwy Bridge HAZUS_SDURS	Length (ft)	1	2	0.0	2,000	0			0
	NG Pipelines DWR	Length (ft)	1,066	11	0.0	203	0	1		0
	PBSJ Gas Oil Production Fields	Area (Acres)	297	11	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	11	13	-	0	0			0
	Residential - Manufactured Housing	Count	7	11	100.0	389	403			24
	Residential - Single Family Dwelling	Count	3	11	100.0	788	837	15,430	24,540	24
Chipps_Island	PBSJ Gas Oil Wells	Count	2	6	-	. 0	0	0	0	0
Clifton Court Forebay Water	Boatlaunch	Count	1	1	100.0	100	110			0
,		Count	1	14	100.0	384	422			18
	Commercial- Retail Trade	Count	1	14	100.0	84	92	1		18
	Residential - Single Family Dwelling	Count	2	1	16.4	504	93			8
	Transmission Line	Length (ft)	9,733	1	-	3,134	0	717	4,206	0
Coney Island	Residential - Manufactured Housing	Count	10	15	100.0	507	526			24
3_	Residential - Single Family Dwelling	Count	66	15	100.0	21,414	22,770	23,296	21,921	24
Deadhorse Island	NG_Pipelines_DWR	Length (ft)	3,862	13	0.0	734	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	211	14	0.0	0	0		į	0
	PBSJ Gas Oil Wells	Count	3	11	-	0	0			0
	Residential - Single Family Dwelling	Count	1	13	100.0	255	271	İ		24
	Residential- Multi- Dwellings- 10 to 19 unit		1	13	100.0	9	10	281	998	24
Decker Island	NG Pipelines DWR	Length (ft)	8,085	3	0.0	1,536	0	0	1,536	0
Egbert Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	120,623	7	25.0	24,125	6,634		.,	6
_920.1	NG Pipelines DWR	Length (ft)	23,270	7	0.0	5,585	0,001			0
	NG Wells DWR Not in PBSJ	Count	20,210	4		0,000				<u>_</u>
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2,020		0.0	<u> </u>				n
	PBSJ Gas Oil Wells	Count	67	5		<u> </u>	<u> </u>	1		
	Residential - Manufactured Housing	Count	3	7	100.0	117	120			24
	Residential - Single Family Dwelling	Count	15	7	37.0	3,889	1,805			18
	Transmission Line	Length (ft)	6,914		<u></u> _	2.226	1,555	8,559	35,942	0
Elk Grove 1	Hwy HAZUS SDURS	Length (ft)	764	4	25.0	252	69	69	252	3
Empire_Tract	Boatlaunch	Count	4	27	100.0	400	440	03	202	0
-mpne_nact	Delta Roads PBSJ Minor Roads	Length (ft)	136,956	26	25.0	27,391	7,533			<u>0</u>
	PBSJ Gas Oil Wells	Count	130,930	23	20.0	21,081	7,000			0
,	I DOS CAS OII VVEIIS	Count	ા		<u> </u>	<u> </u>				

	Residential - Manufactured Housing	Count	19	26	100.0	1,031	1,070	I		24
	Residential - Single Family Dwelling	Count	10	26	100.0	1,705	1,813	10,855	30,527	2
Fabian Tract	Boatlaunch	Count	4	2	100.0	400	440	10,000		_
abian_iraot	Commercial- Retail Trade	Count	4	6	20.0	1,192	649			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	153,701	6	25.0	30.740	8,454			. (
	NG Pipelines DWR	Length (ft)	1,818	6	0.0	345	0			
	PBSJ Gas Oil Wells	Count	4	5	-	0	ō			
	Residential - Duplex	Count	11	6	32.0	4,120	1,689			1
	Residential - Institutional Dormitory	Count	7	6	15.0	29,474	8,408			
	Residential - Manufactured Housing	Count	35	6	100.0	1,811	1,846			2.
	Residential - Single Family Dwelling	Count	55	6	32.6	11,390	4,721			1
	Transmission Line	Lenath (ft)	24,537	6		6,041	0	26,207	85,513	
Fay Island	Delta Roads PBSJ Minor Roads	Length (ft)	113	14	25.0	23	6	6	23	***
Glanville Tract	Delta Roads PBSJ Major Roads	Length (ft)	7,873	4	25.0	2,598	714			
	Delta Roads PBSJ Minor Roads	Length (ft)	5,515	4	25.0	1,103	303	1		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	9	0.0	2,000	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	89	4	0.0	0	ō			
	PBSJ Gas Oil Wells	Count	10	4	-	Ö	ō			
	Residential - Manufactured Housing	Count	2	5	100.0	69	69			2
	Residential - Single Family Dwelling	Count	4	5	29.3	694	243			1
	Residential- Multi- Dwellings- 10 to 19 unit		2	5	28.5	33	11	1,341	6,497	
Grand Island	Agriculture	Count	1	15	100.0	8,486	8,028			1
	Boatlaunch	Count	1	2	100.0	100	110	i		
	Commercial - Banks	Count	1	15	44.0	1,084	859	l		1
	Commercial- Professional/ Technical Serv	Count	1	22	100.0	6,378	7,016			- 1
	Commercial- Retail Trade	Count	1	22	100.0	6,638	7,302			1
	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,302	15	25.0	1,090	300			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	169,393	15	25.0	33,879	9,317			
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2	2	0.0	4,000	0			
	Hwy_HAZUS_SDURS	Length (ft)	75,586	15	25.0	24,943	6,859			
	Industrial - Light	Count	7	15	100.0	39,675	36,311			1
	NG_Pipelines_DWR	Length (ft)	11,590	15	0.0	2,202	0			
	NG_Wells_DWR_Not_in_PBSJ	Count	1	12	-	0	0			
	PBSJ_Cell_Towers	Count	1	2		250	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2,816	15	0.0	0	0			
	PBSJ Gas Oil Wells	Count	96	14		0	O'			
	PBSJ_Substation	Count	1	18	25.0	1,000	275			
	Residential - Duplex	Count	5	15	100.0	2,526	2,686	1		2
	Residential - Institutional Dormitory	Count	1	15	47.0	5,649	3,476	j		2
	Residential - Manufactured Housing	Count	39	15	100.0	2,070	2,148	İ		2
	Residential - Single Family Dwelling	Count	366	15	100.0	97,205	103,361			2
	Residential- Multi- Dwellings- 10 to 19 unit	Count	1	22	100.0	3,597	3,825	l		2
	Schools_HAZUS_SDURS	Count	1	17	100.0	1,180	1,194			1
	Transmission Line	Length (ft)	48,859	15		12,030	0	193,064	253,981	
Hastings_Tract 1	Commercial- Retail Trade	Count	1	4	16.0	6	3	ا	_	
		Area (Acres)	46	4	0.0	0	0	3	6	
Hastings_Tract 2	Commercial- Retail Trade	Count	1	5	20.0	162	86	l		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	27,793	5	25.0	5,559	1,529	l		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	464	5	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	37	4	- [0	0	1		

	Residential - Manufactured Housing	Count	1	5	100.0	59	59	1	1	24
	Residential - Single Family Dwelling	Count	10	5	32.6	2,700	1.068			16
	Transmission Line	Length (ft)	11,505	5		3,704	1,000	2,742	12,183	
Holland Land	Hwy HAZUS SDURS	Length (ft)	68,171	4	25.0	22,496	6,187	6,187	22,496	3
Holland_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	52,160	18	25.0	10,432	2,869	0,107	22,100	6
nonana_nact	Hwy Bridge HAZUS SDURS	Length (ft)	32,100	12	0.0	2,000	2,009			0
	PBSJ Gas Oil Wells	Count	11	15		2,000	Ö			0
	Residential - Manufactured Housing	Count	4	17	100.0	192	199			24
	Residential - Single Family Dwelling	Count	12	<u>i</u>	100.0	3,164	3,364	6,432	15,788	24
Honker_Bay_Club	NG Pipelines DWR	Length (ft)	4,395	6	0.0	835	0,001	0, 102	10,700	
	PBSJ Gas Oil Production Fields	Area (Acres)	47	6	0.0	- 000	Ö			C
	Petr Pipelines DWR	Length (ft)	4,804	6	0.0	1,009	Ö			
	Residential - Single Family Dwelling	Count	3	6	32.6	801	317	317	2,645	16
Hotchkiss_Tract 1	Boatlaunch	Count	2	7	100.0	200	220			C
	Commercial- Professional/ Technical Serv		2	12	100.0	6,052	5,991	1		18
	Commercial- Retail Trade	Count	2	12	42.0	1,308	878			15
	Delta Roads PBSJ Minor Roads	Length (ft)	88.936	8	25.0	17,787	4,891			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	2	0.0	2,000	0			0
	NG_Pipelines_DWR	Length (ft)	21,048	8	0.0	3,999	0			C
	PBSJ Gas Oil Production Fields	Area (Acres)	846	8	0.0	0	Ö			C
	PBSJ Gas Oil Wells	Count	25	7	-	Ö	0			0
	Residential - Duplex	Count	10	8	45.5	4,130	2,238			22
	Residential - Manufactured Housing	Count	157	8	100.0	8,275	8,526			24
	Residential - Single Family Dwelling	Count	493	8	43.6	134,779	71,188			21
	Residential - Triplex-Quads	Count	4	8	45.5	1,851	1,003			22
	Transmission Line	Length (ft)	45,599	8	-	14,681	0	94,936	195,063	0
Hotchkiss_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	6,887	8	25.0	1,377	379			6
	NG_Pipelines_DWR	Length (ft)	2,371	8	0.0	450	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	173	8	0.0	0	0			C
	PBSJ_Gas_Oil_Wells	Count	2	7	-	0	0	379	1,828	0
Jersey_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,574	17	25.0	7,515	2,067			6
	NG_Pipelines_DWR	Length (ft)	11,881	17	0.0	7,426	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	630	17	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	15	14	- 1	0	Ò			0
	Residential - Manufactured Housing	Count	1	17	100.0	65	67			24
	Residential - Single Family Dwelling	Count	4	17	100.0	1,065	1,132			24
	Solid_Waste _Facilities	Count	1	23	25.0	0	0			0
	Transmission Line	Length (ft)	26,539	17	-	8,545	0	3,266	24,615	0
Jones_Tract-Upper_and_i	Low bridges_not_in_HAZUS	Count	1	4	0.0	1,000	0			. 0
		Count	2	22	100.0	956	1,052			18
	Commercial- Retail Trade	Count	2	22	100.0	176	194			18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	125,979	18	25.0	25,196	6,929			6
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	27,507	18	0.0	5,776	0			0
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	16	0.0	2,000	0			0
	NG_Pipelines_DWR	Length (ft)	15,033	18	0.0	24,203	0			0
	NG_Storage	Count	1	4	0.0	0	0			0
	PBSJ_Cell_Towers	Count	2	4	-]	500	0	į		0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	7,820	18	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	6,859	19		0	0	1		0
	PBSJ_Mokelumne_Aqueduct	Length (ft)	82,208	18	- 1	411,040	34,363			1

.	Rail_Bridge_HAZUS_SDURS	Count	2	13	100.0	2,000	0	ı		1
ł	Rail HAZUS SDURS	Length (ft)	28,473	9	100.0	8,115	8,800			1
İ	Residential - Duplex	Count	3	6	32.0	1,307	511			15
	Residential - Institutional Dormitory	Count	5	20	100.0	32,351	34,400			24
	Residential - Manufactured Housing	Count	10	18	100.0	445	462			24
· ·	Residential - Single Family Dwelling	Count	14	18	100.0	2,757	2,932	89,642	517,823	24
King_Island	Boatlaunch	Count	4	18	100.0	400	440			0
	Commercial - Entertainment and Recreation	Count	4	19	100.0	7,088	7,797			0
	Commercial- Professional/ Technical Serv	Count	4	19	100.0	7,464	8,210			18
	Commercial- Retail Trade	Count	4	19	100.0	54,176	59,594			18
	Delta Roads PBSJ Minor Roads	Length (ft)	162,620	20	25.0	32,524	8,944			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2	18	0.0	4,000	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	179	20	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	10	19	-	0	0			0
	Residential - Duplex	Count	4	19	100.0	1,122	1,193			24
	Residential - Institutional Dormitory	Count	4	19	100.0	21,336	22,687			24
	Residential - Manufactured Housing	Count	230	19	100.0	11,681	12,121			24
	Residential - Single Family Dwelling	Count	92	19	100.0	18,542	19,716			24
	water trans	Count	4	25	0.0	0	0	140,702	158,332	0
Libby_McNeil_Tract 1	Commercial- Professional/ Technical Serv		2	5	35.0	2,220	1.368			13
	Commercial- Retail Trade	Count	2	5	20.0	2,672	1,426			7
	Communication HAZUS SDURS	Count	<u></u>	2	0.0	236	1,120			ö
	Delta_Roads_PBSJ_Major Roads	Length (ft)	5,110	6	25.0	1,686	464			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,141	6	25.0	2,828	778			6
	PBSJ Gas Oil Production Fields	Area (Acres)	145	6	0.0	2,020	7,0			- ŏ
	PBSJ Gas Oil Wells	Count	7	4	- 0.0	ő	0			ŏ
	Residential - Duplex	Count	6	5	32.0	2,619	1.024			15
	Residential - Manufactured Housing	Count	3	5	100.0	182	184			24
	Residential - Single Family Dwelling	Count	57	5	32.6	15,440	6,106	11,348	27.884	16
Libby McNeil Tract 2	Boatlaunch	Count	2	2	100.0	200	220	11,010	21,004	0
	Commercial- Retail Trade	Count	2		16.0	4	220			6
	Delta Roads PBSJ Minor Roads	Length (ft)	480	- 3	25.0	96	26			6
	PBSJ Gas Oil Production Fields	Area (Acres)	44		0.0	0	20			0
	Residential - Single Family Dwelling	Count	6	3	25.8	1,548	468	716	1,848	
Liberte Island	Delta Roads PBSJ Minor Roads	Length (ft)	35,790	2	25.0	7,158	1,968	, 10	1,040	6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	33,730		0.0	2,000	1,900			0
	NG Pipelines DWR	Length (ft)	28,637		0.0	5,441				
	PBSJ Gas Oil Production Fields	Area (Acres)	743		0.0	5,441				
	PBSJ Gas Oil Wells	Count	23	2		0		1,968	14,599	
Lincoln_Village_Tract	Hwy HAZUS SDURS	Length (ft)	56,502	12	25.0	18,646	5,128	1,300	14,000	3
	Residential - Single Family Dwelling	Count	1	12	16.4	234	43			8
	Residential- Multi- Dwellings- 10 to 19 unit		 	12	100.0	17	18	1		24
	Residential- Multi- Dwellings- 20 to 49 unit			12	100.0	- 17	6	5,195	18,902	24
Lisbon District	Delta Roads PBSJ Minor Roads	Length (ft)	5,820	12	25.0	1,164		3,193	10,902	
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	127	4	25.0	1,104	320			6
	PBSJ Gas Oil Wells	Count	12/	4	0.0	0	0	i		9
	Rail HAZUS SDURS	Length (ft)	9,382	3	- 25.0	0.674		į		0
	Residential - Duplex	Count	9,362	4	25.0 28.5	2,674 237	735			1
	Residential - Single Family Dwelling	Count	25	4			82	ļ		14
	Residential - Single Family Dwelling Residential - Multi- Dwellings - 10 to 19 unit		25	4	29.3 28.5	6,829	2,391	j		14
	Lizeagerman Main- Dwellings- 10 to 19 min	Count	L	41	∠6.5	363	125	1	İ	14

	Transmission Line	Length (ft)	7,609	4	-	1,873	0	3,653	13,140	
Little Holland Tract	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	89	2	0.0	0	0			1
	PBSJ_Gas_Oil_Wells	Count	2	2	-	0	0	0	0	
Little_Egbert□_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	35,665	12	25.0	7,133	1,962	ſ		
	Hwy_HAZUS_SDURS	Length (ft)	317	13	25.0	105	29			
	NG_Pipelines_DWR	Length (ft)	10,821	13	0.0	2,597	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	652	12	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	24	12	- 1	0	0			
	Residential - Manufactured Housing	Count	3	13	100.0	81	84			2
	Residential - Single Family Dwelling	Count	11	13	100.0	2,693	2,863	4,938	12,608	2
Lower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	11,403	7	25.0	2,281	627			
	PBSJ Gas Oil Wells	Count	1	1	-	0	0			
	Residential - Manufactured Housing	Count	3	7	100.0	90	92			2
	Residential - Single Family Dwelling	Count	3	7	39.1	563	270	989	2,933	1
Mandeville_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,063	24	25.0	5,213	1,433			
-	PBSJ Gas Oil Wells	Count	10	27	-1	0	0	1,433	5,213	
McCormack Williamson T	rac Communication HAZUS SDURS	Count	2	2	0.0	236	0			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,930	5	25.0	1,986	546		ŀ	
	NG Pipelines DWR	Length (ft)	4,699	5	0.0	893	0		Ī	
	PBSJ Gas Oil Production Fields	Area (Acres)	885	5	0.0	0	0		ľ	
	PBSJ Gas Oil Wells	Count	18	5	-	0	0	546	3,115	
McDonald Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	67,361	24	25.0	13,472	3,705			
	NG Pipelines DWR	Length (ft)	20,905	24	0.0	6,376	0		F	
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2,056	24	0.0	0	0	ŀ	ľ	
	PBSJ Gas Oil Wells	Count	105	20	- 1	0	Ó		ľ	
	Residential - Institutional Dormitory	Count	3	24	100.0	16,398	17,437	21,141	36,246	2
McMullin_Ranch-River_Jur		Length (ft)	23,053	5	25.0	7,607	2,092	2,092	7,607	······································
Medford Island	Delta Roads PBSJ Minor Roads	Length (ft)	28,314	20	25.0	5,663	1,557	-,	.,,	
	Residential - Institutional Dormitory	Count	1	20	100.0	2,897	3,080	4,637	8,559	2
Merritt Island	Commercial- Professional/ Technical Serv		2	4	28.0	712	392	,,00.	5,555	1
	Commercial- Retail Trade	Count	2	4	18.0	156	77		ŀ	
	Delta_Roads_PBSJ_Major Roads	Length (ft)	2,454	4	25.0	810	223		T	
	Delta Roads PBSJ Minor Roads	Length (ft)	43,719	4	25.0	8,744	2,405		F	
	PBSJ Gas Oil Production Fields	Area (Acres)	70	<u> </u>	0.0	0,7 4 4	2,,,00		1	
	PBSJ Gas Oil Wells	Count	9	3			0		F	
	Residential - Manufactured Housing	Count	3	4	100.0	218	216		F	2
	Residential - Single Family Dwelling	Count	47	4	29.3	12,674	4,438		<u> </u>	<u>-</u> 1
	Residential- Multi- Dwellings- 10 to 19 unit		2	4	28.5	198	68	7,818	23,512	1
Middle_Roberts_Island	Boatlaunch	Count	3	19	100.0	300	330	7,010	20,012	
	bridges_not_in_HAZUS	Count	1	10	0.0	1,000	330	1	F	
	Commercial - Personal and Repair Service		- 	12	39.0	1,226	802		F	1
	Commercial- Professional/ Technical Service		- il	15	100.0	716	788	l	F	1
	Commercial- Retail Trade	Count		15	100.0	566	623		F	1
	Dams HAZUS SDURS	Count		3	0.0	300	023		-	<u>'</u>
	Delta_Roads_PBSJ_Major Roads	Length (ft)	23,426	11	25.0	7,731	2,126		-	
	Delta Roads PBSJ Minor Roads	Length (ft)	288,291	11	25.0	57,658	15,856		⊢	
	gas_pipeline_kinder_morgan_LS 9	Length (ft)	24,055	11	0.0	5,052	10,000		 -	
	Hwy Bridge HAZUS SDURS	Length (ft)	Z4,000 1	5	0.0	2,000	<u> </u>		-	
	NG Pipelines DWR	Length (ft)	59,509	12	0.0	11,307	<u>\</u>			
	LAO_LIPEIILIES_DAAV	Lengar (II)	39,309	14	0.0	11,307	V	j	L	

	NG Wells DWR Not in PBSJ	Count	11	2		اه	0	I		
	PBSJ Gas Oil Production Fields	Area (Acres)	7,820	11	0.0	<u> </u>				<u> </u>
	PBSJ Gas Oil Wells	Count	6,859	11	- 0.0	<u> </u>		i		l
	PBSJ_Mokelumne_Aqueduct	Length (ft)	66,109	12	0	330,545	-			—
	Petr Pipelines DWR	Length (ft)	9,152	15	0.0	1,922	- 0			
	Rail HAZUS SDURS	Length (ft)	27,702	12	25.0	7,895	2,171			
	Residential - Duplex	Count	21,102	7	43.0	3,395	1,725			2
	Residential - Institutional Dormitory	Count	6	4	45.0 15.0	36,285	8,914			
	Residential - Manufactured Housing	Count	37	12	100.0	1,889	1,960			24
	Residential - Mandiactured Hodsing Residential - Single Family Dwelling	Count	135	10	48.6	31.622	18,696	ı		2:
	Schools_HAZUS_SDURS	Count	135	16	45.0					10
	Solid Waste Facilities	Count	- 4	3	25.0	1,180	837			
			164 244		25.0	40.450		54.000	E 40 740	
	Transmission Line	Length (ft)	164,314	11		40,456	0	54,828	542,743	
Netherlands 2	air_trans	Count			-	0	0			
	Commercial- Professional/ Technical Serv		1	4	28.0	276	156			10
	Commercial- Retail Trade	Count	1	4	18.0	1,354	693			
	Delta_Roads_PBSJ_Major Roads	Length (ft)	12,559	4	25.0	4,144	1,140			
	Delta Roads PBSJ_Minor_Roads	Length (ft)	269,394	4	25.0	53,879	14,817			
	Fire_Stations_HAZUS_SDURS	Count	1	1	7.0	1,770	463			
	hc_ambulatory	Count	1	4	13.0	0	0			
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	1	0.0	2,000	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	613	. 4	0.0	0	0			•
	PBSJ_Gas_Oil_Wells	Count	70	3		0	0			
	Rail_HAZUS_SDURS	Length (ft)	2,051	4	25.0	585	161	Į.		
	Residential - Institutional Dormitory	Count	1	4	15.0	6,960	1,710			
	Residential - Manufactured Housing	Count	5	4	100.0	365	365			24
	Residential - Single Family Dwelling	Count	171	4	29.3	44,922	15,730			14
	Residential- Multi- Dwellings- 10 to 19 unit	Count	1	4	28.5	833	287			14
	Solid_Waste _Facilities	Count	2	1	25.0	Ö	0	35,521	117,087	1
New_Hope_Tract	Agriculture	Count	2	6	30.0	7,212	3,808			1
	Boatlaunch	Count	4	3	100.0	400	440			(
	Commercial- Professional/ Technical Serv	Count	2	6	38.0	1,280	824			14
	Commercial- Retail Trade	Count	2	6	23.0	4,192	2,352	- 1		
	Delta_Roads_PBSJ_Major Roads	Length (ft)	13,319	7	25.0	4,395	1,209	1		(
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	91,396	7	25.0	18,279	5,027	i		,
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	2	0.0	2,000	0			(
	NG_Pipelines_DWR	Length (ft)	30,823	6	0.0	5,856	0	ŀ		
	PBSJ_Cell_Towers	Count	1	2		250	0	İ		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	1,678	7	0.0	Ö	0	ŀ		(
	PBSJ_Gas_Oil_Wells	Count	56	4	-	0	0	l		(
	Residential - Manufactured Housing	Count	139	6	100.0	7,181	7,320	İ		24
•	Residential - Single Family Dwelling	Count	58	6	37.0	12,009	5,363			18
	water_trans	Count	2	3	0.0	0	0	26,342	63,054	
Drwood_Tract	Commercial- Professional/ Technical Serv	Count	1	20	100.0	740	814		,	18
-	Commercial- Retail Trade	Count	1	20	100.0	50	55	1		18
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,363	15	25.0	4,873	1,340	i		· · · · ·
,	gas_pipeline_kinder_morgan_LS_9	Length (ft)	14,840	15	0.0	3,116	1,010			
*	NG Pipelines DWR	Length (ft)	6,497	16	0.0	1,819				
		Count	14,840	18						
	PBSJ Gas Oil Wells	COUNT .	14.0401	174						

	Residential - Manufactured Housing	Count	11	16	100.0	47	48	1		24
	Residential - Single Family Dwelling	Count	83	13	100.0	31,421	33,410			24
	Transmission Line	Length (ft)	7,820	8	-	2,518	0	52,616	247,313	(
Palm_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,442	19	25.0	4,888	1,344			(
raiii_iiact	NG Pipelines DWR	Length (ft)	27,094	19	0.0	7,586	0	l		(
	PBSJ Gas Oil Production Fields	Area (Acres)	101	19	0.0	0	ō	Ī		(
	PBSJ Gas Oil Wells	Count	3	19		0	0			(
	Rail HAZUS SDURS	Length (ft)	12,632	19	25.0	3,600	990	ŀ		
	Residential - Manufactured Housing	Count	12,002	19	100.0	102	106	İ		24
	Residential - Single Family Dwelling	Count	13	19	100.0	4,263	4,533			24
	Transmission Line	Length (ft)	6.595	19	-	2,123	0	6,973	22,563	(
Peter Pocket	Hwy HAZUS SDURS	Length (ft)	5,832	3	25.0	1,925	529			
cto ookot	PBSJ Gas Oil Production Fields	Area (Acres)	511	9	0.0	0	0			
	PBSJ Gas Oil Wells	Count	5	1	-	0	0			
	Residential - Single Family Dwelling	Count	1	3	20.8	372	90	ı		10
	Transmission Line	Length (ft)	865	3	-	279	0	619	2,575	. (
Pico Naglee Tract	Commercial- Professional/ Technical Serv		2	3	22.0	280	129			
inagioc_iiaot	Commercial- Retail Trade	Count	5 	3	16.0	392	168	ì		
	Delta Roads PBSJ Major Roads	Length (ft)	9,806	3	25.0	3,236	890			
	Delta Roads PBSJ Minor Roads	Length (ft)	36,968	3	25.0	7,394	2,033			(
	NG Pipelines DWR	Length (ft)	14,033	3	0.0	2,666	0			
	PBSJ Gas Oil Wells	Count	2	3		2,000	0			
	Residential - Manufactured Housing	Count		3	100.0	305	295			2
	Residential - Single Family Dwelling	Count	83	3	25.8	26,220	7,932			1:
	Transmission Line	Length (ft)	1,082	3		266	0	l l		
	Utilities ESRI	Count	2	1	-	0	Ö	11,447	40,759	
Pierson Tract	Commercial - Personal and Repair Service		2	10	35.0	3,140	1,986			1;
	Commercial- Professional/ Technical Serv		2	10	100.0	4,412	4,368			1
	Commercial- Retail Trade	Count	2	10	38.0	1,912	1,241	•		1
	Communication HAZUS SDURS	Count	4	7	100.0	472	519			1
	Delta Roads PBSJ Major Roads	Length (ft)	14,148	11	25.0	4,669	1,284			
	Delta Roads PBSJ Minor Roads	Length (ft)	116,302	11	25.0	23,260	6,397	•		
	Fire Stations HAZUS SDURS	Count	2	3	10.0	3,540	1,441			
	Hwy Bridge HAZUS SDURS	Length (ft)	2	3	0.0	4,000	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	279	11	0.0	0	0			
	PBSJ Gas Oil Wells	Count	16	8	-	0	0			
	Residential - Duplex	Count	3	10	49.5	1,922	1,148			2
	Residential - Manufactured Housing	Count	19	10	100.0	1,004	1,041			2
	Residential - Single Family Dwelling	Count	172	10	48.6	35,792	21,162			2
	Residential - Triplex-Quads	Count	2	10	49.5	981	586			2-
	Schools_HAZUS_SDURS	Count	3	3	7.0	3,540	1,207	İ		
	Transmission Line	Length (ft)	16,720	11	-	4,117	0	42,381	92,760	
Pittsburg	Commercial- Professional/ Technical Serv	Count	2	4	28.0	176	97			1
	Commercial- Retail Trade	Count	2	4	18.0	36	18			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,044	4	25.0	209	57	į		
	NG_Pipelines_DWR	Length (ft)	3,074	4	0.0	584	0			
	PBSJ_Substation	Count	1	3	25.0	1,000	275			
	Petr_Pipelines_DWR	Length (ft)	3,752	4	0.0	788	0	İ		
	Ports_HAZUS_SDURS	Count	2	8	0.0	5,145	0			
	Rail HAZUS SDURS	Length (ft)	10,239	4	25.0	2,918	802			

	Residential - Manufactured Housing	Count	2	4	100.0	87	86	1		2
	Residential - Single Family Dwelling	Count	53	<u> </u>	29.3	15,945	5,584			1
	Residential - Single Family Dwelling Residential - Multi- Dwellings- 10 to 19 unit		2	4	28.5	1,371	473	- 1		1
	Residential- Multi- Dwellings- 20 to 49 unit		2	<u> </u>	28.5	915	315	1		1
	Transmission Line	Length (ft)	24,176	4		5.952	0,0	7,707	35.127	
Prospect Island	Delta Roads PBSJ Minor Roads	Length (ft)	5,398	4	25.0	1,080	297		00,121	
-lospect_island	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	302	4	0.0	1,000	0			
	PBSJ Gas Oil Wells	Count	11	3	- 0.0	ő	ő			
	Residential - Single Family Dwelling	Count	2	4	29.3	707	247			1
	Residential- Single Family Dwelling Residential- Multi- Dwellings- 10 to 19 unit		1		28.5	707	1	545	1.788	1
Quimby Island	bridges not in HAZUS	Count	i	14	0.0	1,000	o		.,,	
zamnoy_ioiama	PBSJ Gas Oil Wells	Count	1	19		0	0	ı		
	Residential - Single Family Dwelling	Count	- il	20	100.0	126	134	134	1,126	2
Rindge_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	334,873	23	25.0	66,975	18,418		.,	
unage_nact	PBSJ Cell Towers	Count	1	12		250	0			
	PBSJ Gas Oil Wells	Count	14	21			ő			·
	Residential - Duplex	Count	4	22	100.0	1,146	1,219	1		
	Residential - Manufactured Housing	Count		22	100.0	528	548	ļ		
	Residential - Single Family Dwelling	Count	16	22	100.0	3,384	3,598	23,783	72,283	
Rio Blanco Tract	Delta Roads PBSJ Minor Roads	Length (ft)	2,927	7	25.0	585	161	20,700	,, 00	
do_bianco_rract	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2,921	13	0.0	2,000	0			
	Hwy HAZUS SDURS	Length (ft)	496	7	25.0	164	45			
	PBSJ Gas Oil Production Fields	Area (Acres)	490		0.0	0	0			
	PBSJ_Gas_Oil_Floduction_Fleids	Count	2	7	0.0		0			
	Transmission Line	Length (ft)	9,406	7		2,316	0	206	5,065	
Roberts_Island	Boatlaunch	Count	3,400	1	100.0	300	330	200	0,000	
Tobel to_island	Hwy HAZUS SDURS	Length (ft)	44,694	4	25.0	14,749	4,056	4,386	15,049	
Rough and Ready Island	air trans	Count	1	1	-	0	0			
	Commercial - Entertainment and Recreation	Count	1	7	18.0	1,224	660			
	Commercial - Personal and Repair Service	Count	1	7	22.0	2,282	1,280			
	Commercial - Wholesale Trade	Count	3	7	19.0	11,204	6,101			
	Commercial- Professional/ Technical Serv	Count	1	7	38.0	452	293			
	Commercial- Retail Trade	Count	1	7	23.0	1,386	785			
	Delta_Roads_PBSJ_Major Roads	Length (ft)	8,041	6	25.0	2,654	730	j		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	63,660	6	25.0	12,732	3,501	1		
	Hazmat_HAZUS_SDURS	Count	3	1	-	0	0			
	Industrial - Heavy	Count	1	7	26.0	3,808	1,868	1		
	PBSJ_Gas_Oil_Wells	Count	1	5	-	. 0	0			
	Petr_Pipelines_DWR	Length (ft)	11,908	7	0.0	2,501	0			
	Rail_HAZUS_SDURS	Length (ft)	28,933	7	25.0	8,246	2,268			
	Residential - Duplex	Count	3	7	38.5	912	417			
	Residential - Manufactured Housing	Count	8	7	100.0	422	431	1		2
	Residential - Single Family Dwelling	Count	13	7	37.0	2,693	1,202	19,537	50,514	
lyer Island	Delta_Roads_PBSJ_Major Roads	Length (ft)	1,851	13	25.0	611	168			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	116,873	13	25.0	23,375	6,428	l		
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	2	0.0	2,000	0	j		
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	412	13	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	22	10	-1	0	Ò	1		
	Residential - Manufactured Housing	Count	7	13	100.0	360	374	- 1		2
	Residential - Single Family Dwelling	Count	61	13	100.0	16,490	17,534	24,503		2

Sargent_Barnhart_Tract 2	air_trans	Count	1	8	-	0	0			
	Commercial- Professional/ Technical Serv	Count	1	10	47.0	8,908	6,222			1
	Commercial- Retail Trade	Count	1	10	34.0	4,026	2,524			1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	125,110	10	25.0	25,022	6,881	`		
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	6,859	10	0.0	1,440	0			
	hc_ambulatory	Count	20	10	22.0	0	0	1		
	hc_hospitals	Count	1	10	47.0	0	0			1
	hc nursing res	Count	. 2	10	23.0	0	0			1
	PBSJ Mokelumne Aqueduct	Length (ft)	20,301	10	0	101,505	0			
	PBSJ Substation	Count	1	14	25.0	1,000	275			
	Residential - Institutional Dormitory	Count	1	10	23.0	5,612	2,193			1
	Residential - Manufactured Housing	Count	10	10	100.0	795	822			2
	Residential - Multi-Dwellings - 5 to 9 units	Count	5	10	48.0	15,809	9,077			2
	Residential - Single Family Dwelling	Count	1,518	10	46.6	517,566	291,968			2
	Residential - Triplex-Quads	Count	23	10	48.0	9,090	5,219			2
	Residential- Multi- Dwellings- 10 to 19 unit		1	10	48.0	1,271	730			2
	Residential- Multi- Dwellings- 20 to 49 unit	Count	1	10	48.0	879	505			2
	Schools HAZUS SDURS	Count	1	10	17.0	1,180	655	1		
	Transmission Line	Length (ft)	10,183	10		2,507	0	327.072	696.609	
Sargent Barnhart Tract 3	Commercial - Entertainment and Recreation	,	7	1	9.0	11,302	1,865	021,012	000,000	
g	Commercial - Personal and Repair Service		1	1	9.0	986	163			
	Commercial- Professional/ Technical Serv		2	-	11.0	7,668	1,350			
	Commercial- Retail Trade	Count	2		9.0	472	78			-
	Delta Roads PBSJ Minor Roads	Length (ft)	1.859	1	25.0	372	102			
		Count	1,000		15.5	1,305	232	Ī		
		Count	35		16.4	10,687	1,965			
	Residential - Triplex-Quads	Count	2	- 1	15.5	420	75			
	Residential- Multi- Dwellings- 10 to 19 unit		2	1	15.5	150	27			
	Residential- Multi- Dwellings- 20 to 49 unit	Count	2		15.5	213	38	5,893	33,574	
Schafter-Pintail Tract	Delta Roads PBSJ Minor Roads	Length (ft)	26,277	8	25.0	5,255	1,445	3,093	33,314	
John Color Hitali Truot	PBSJ Gas Oil Wells	Count	20,277	7	20.0	3,233	1,445	i		<u> </u>
		Count	5	8	43.6	1,553	820	2,265	6,808	B
Sherman Island		Count	5	2	100.0			2,200	0,000	
Silerinari_islariu	Commercial- Professional/ Technical Serv		2		100.0	500	550			1
	Commercial- Retail Trade		2	18		552	607			
	Delta_Roads_PBSJ_Major Roads	Count		18	100.0	1,920	2,112			1
	Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,522	18	25.0	502	138			
	Hwy_HAZUS_SDURS	Length (ft)	119,684	18	25.0	23,937	6,583			
		Length (ft)	38,217	18	25.0	12,612	3,468			
	NG_Pipelines_DWR	Length (ft)	145,514	18	0.0	48,020	0			
	NG_Wells_DWR_Not_in_PBSJ PBSJ_Gas_Oil_Production_Fields	Count	1 200	17		0	0			
		Area (Acres)	1,083	18	0.0	0	0			
		Count	60	16	400.0	0	0	l		
		Count	2	18	100.0	1,290	1,372	l		2
	Residential - Manufactured Housing	Count	63	18	100.0	3,240	3,362			2
	Residential - Single Family Dwelling	Count	54	18	100.0	11,228	11,939			2
	Residential - Triplex-Quads	Count	2	18	100.0	969	1,030	ŀ		2
	Residential- Multi- Dwellings- 10 to 19 unit		2	18	100.0	225	239	<u>.</u>	[2
	Transmission Line	Length (ft)	71,300	18	-	22,956	0	31,400	127,950	
Shima_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,202	9	25.0	1,040	286			
	Transmission Line	Length (ft)	24,926	9	- 1	6,137	0	286	7,177	

s PBSJ Minor Roads Oil Production Fields Oil Wells In Line Single Family Dwelling S PBSJ Minor Roads HAZUS SDURS es DWR Single Family Dwelling In Line Professional/ Technical Ser Retail Trade S PBSJ Minor Roads S PBSJ Minor Roads S PBSJ Minor Roads S PBSJ Minor Roads S DWR Oil Wells es DWR SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un at	Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count	1,485 2 2 2,073 3 14,142 1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193 10 2 2	7 3 3 7 5 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4	25.0 0.0 - 32.6 25.0 0.0 20.8 - 28.0 18.0 25.0 0.0 25.0 25.0 0.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 26.0 27.0 28.0 29.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0	297 0 0 510 756 2,828 2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	82 0 0 0 299 778 0 0 130 0 2,031 1,293 66 717 0 0 0 161 2,169 111 17,894 1,634	908	807 756 5,447	1 1 1 2 2 1 1
Oil Wells In Line Single Family Dwelling PBSJ Minor Roads HAZUS SDURS ES DWR Single Family Dwelling In Line Professional/ Technical Ser Retail Trade PBSJ Major Roads PBSJ Minor Roads PBSJ Minor Roads DWR Oil Wells ES DWR Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Length (ft) Count Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Length (ft) Length (ft) Count Length (ft) Length (ft) Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	3 14,142 1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	7 5 3 5 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	- - 32.6 25.0 0.0 0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 25.0 25.0 25.0 25.0	510 756 2,828 2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	0 299 778 0 0 130 0 2,031 1,293 66 717 0 0 0 161 2,169 111 17,894	299	756	1 1 1 2
n Line Single Family Dwelling S PBSJ_Minor_Roads HAZUS_SDURS es_DWR Single Family Dwelling n Line Professional/ Technical Ser Retail Trade S PBSJ_Major Roads S PBSJ_Minor_Roads S DWR Oil_Wells es_DWR Dil_Wells es_DWR Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Count Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count Count	3 14,142 1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 5 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	- 32.6 25.0 0.0 0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 25.0 25.0 25.0 25.0	756 2,828 2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	299 778 0 0 130 0 2,031 1,293 66 717 0 0 161 2,169 111 17,894	299	756	1 1 1 2
Single Family Dwelling PBSJ_Minor_Roads HAZUS_SDURS ES_DWR Single Family Dwelling In Line Professional/ Technical Ser Retail Trade PBSJ_Major Roads PBSJ_Minor_Roads PBSJ_Minor_Roads DWR Oil_Wells ES_DWR DUPLS DUPLS Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Length (ft) Length (ft) Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count	3 14,142 1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 5 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	25.0 0.0 0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	756 2,828 2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	778 0 0 130 0 2,031 1,293 66 717 0 0 161 2,169 111 17,894	299	756	1 2
B PBSJ_Minor_Roads HAZUS_SDURS B DWR Single Family Dwelling In Line Professional/ Technical Ser Retail Trade B PBSJ_Major Roads PBSJ_Minor_Roads PBSJ_Minor_Roads DWR Oil_Wells B DWR SDURS DUPLS Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Length (ft) Length (ft) Count Length (ft) Count Length (ft) Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count	1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 5 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	0.0 0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	2,828 2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	778 0 0 130 0 2,031 1,293 66 717 0 0 161 2,169 111 17,894	908	5,447	1 2
HAZUS SDURS es DWR Single Family Dwelling n Line Professional/ Technical Ser Retail Trade s PBSJ Major Roads FBSJ Minor Roads DWR Oil Wells es DWR SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un	Length (ft) Length (ft) Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count	1 7 3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.0 0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	2,000 1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	0 0 130 0 2,031 1,293 66 717 0 0 0 161 2,169 111	908	5,447	1 1 2
es_DWR Single Family Dwelling n Line Professional/ Technical Ser Retail Trade s PBSJ_Major Roads s PBSJ_Minor_Roads s DWR Oil_Wells es_DWR SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un	Length (ft) Count Length (ft) Count Count Length (ft) Length (ft) Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count	3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0.0 20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	1 540 77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	0 130 0 2,031 1,293 66 717 0 0 0 161 2,169 111 17,894	908	5,447	1 2
Single Family Dwelling In Line Professional/ Technical Ser Retail Trade PBSJ Major Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads DWR I Wells PBSDURS DUPS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Length (ft) Count Length (ft) Length (ft) Length (ft) Count Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count	3 312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	20.8 - 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	0 2,031 1,293 66 717 0 0 0 161 2,169 111 17,894	908	5,447	1 2
n Line Professional/ Technical Ser Retail Trade PBSJ Major Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Minor Roads PBSJ Mino	Length (ft) V Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count	312 2 2 725 13,035 1,966 1 2,638 2,059 13 3 193	4 4 4 4 4 4 4 4 4 4 4 4	- 28.0 18.0 25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	77 3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	0 2,031 1,293 66 717 0 0 0 161 2,169 111 17,894	908	5,447	1 2
Professional/ Technical Ser- Retail Trade PBSJ_Major Roads PBSJ_Minor_Roads PBSJ_Minor_Roads DWR Oil_Wells SDWR Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	v Count Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	2 2 725 13,035 1,966 1 2,638 2,059 13 3 193 10	4 4 4 4 4 4 4 4 4 4 4	18.0 25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	3,692 2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	1,293 66 717 0 0 0 161 2,169 111 17,894			1 2
Retail Trade S PBSJ_Major Roads S PBSJ_Minor_Roads S DWR Oil_Wells S DWR Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Length (ft) Length (ft) Count Length (ft) Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	2 725 13,035 1,966 1 2,638 2,059 13 3 193	4 4 4 4 4 4 4 4 4 4	18.0 25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	2,612 239 2,607 374 0 554 587 6,294 113 51,100 4,742	1,293 66 717 0 0 0 161 2,169 111 17,894			1 2
BSJ_Major Roads BPSJ_Minor_Roads BPSJ_Minor_Roads BPSJ_Minor_Roads BDWR BSDURS BURS BUPS BUPS BUPS BUPS BUPS BUPS BUPS BUP	Length (ft) Length (ft) Length (ft) Count Length (ft) Length (ft) Count Count Count Count Count Count Count Count Count Count	13,035 1,966 1 2,638 2,059 13 3 193	4 4 4 4 4 4 4 4 4	25.0 25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	239 2,607 374 0 554 587 6,294 113 51,100 4,742	66 717 0 0 0 161 2,169 111 17,894			1 2
s_PBSJ_Minor_Roads s_DWR Oil_Wells es_DWR SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Length (ft) Count Length (ft) Length (ft) Count Count Count Count Count Count Count Count Count Count	13,035 1,966 1 2,638 2,059 13 3 193	4 4 4 4 4 4	25.0 0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	2,607 374 0 554 587 6,294 113 51,100 4,742	717 0 0 0 161 2,169 111 17,894			1 2
s_DWR Oil_Wells es_DWR SDURS DUPLEX Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Count Length (ft) Length (ft) Count Count Count Count Count Count Count Count Count Count Count	1,966 1 2,638 2,059 13 3 193	4 4 4 4 4 4	0.0 - 0.0 25.0 28.5 100.0 29.3 28.5	374 0 554 587 6,294 113 51,100 4,742	0 0 161 2,169 111 17,894			1 2
Oil_Wells es_DWR is_SDURS DUPLEX Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Length (ft) Length (ft) Count Count Count Count Count Count Count t Count	1 2,638 2,059 13 3 193	4 4 4 4 4	- 0.0 25.0 28.5 100.0 29.3 28.5	0 554 587 6,294 113 51,100 4,742	0 0 161 2,169 111 17,894			1 2
es DWR SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Length (ft) Count Count Count Count t Count t Count	2,059 13 3 193 10	4 4 4 4 4	25.0 28.5 100.0 29.3 28.5	587 6,294 113 51,100 4,742	161 2,169 111 17,894			1 2
SDURS Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Length (ft) Count Count Count Count Count t Count t Count	2,059 13 3 193 10	4 4 4 4 4	25.0 28.5 100.0 29.3 28.5	587 6,294 113 51,100 4,742	2,169 111 17,894			1 2
Duplex Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Count Count Count t Count t Count t Count	13 3 193 10	4 4	28.5 100.0 29.3 28.5	6,294 113 51,100 4,742	2,169 111 17,894			2
Manufactured Housing Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Count Count t Count t Count	3 193 10	4 4	100.0 29.3 28.5	113 51,100 4,742	111 17,894			2
Single Family Dwelling Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count Count t Count t Count	10	4	29.3 28.5	51,100 4,742	17,894			
Triplex-Quads Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	Count it Count it Count	10	· · · · · · · · · · · · · · · · · · ·		4,742				. 1
Multi- Dwellings- 10 to 19 un Multi- Dwellings- 20 to 49 un	t Count t Count		· · · · · · · · · · · · · · · · · · ·						1
Multi- Dwellings- 20 to 49 un	t Count	2			717	247		- 1	1
at	Count	2	4	28.5	78	27			1
		ા	4	15.0	262,500	43,313		1	
n Line	Length (ft)	3,814	4		939	0	69,663	337,147	
Oil Wells	Count	1	9	-	0	0			
Single Family Dwelling	Count	2	9	43.6	525	277	277	525	2
Oil_Production_Fields	Area (Acres)	204	4	0.0	0	0			
Oil_Wells	Count	9	2	-	Ó	0	0	0	
Oil Production Fields	Area (Acres)	1	6	0.0	0	0			
Oil_Wells	Count	1	6		0	0	0	0	
s_PBSJ_Minor_Roads	Length (ft)	857	8	25.0	171	47			
s DWR	Length (ft)	4,304	9	0.0	818	0		1	
Oil_Wells	Count	3	4	-	0	0			
es_DWR	Length (ft)	5,048	9	0.0	1,060	0		ı	
_SDURS	Length (ft)	422	9	25.0	120	33		Ī	
Single Family Dwelling	Count	6	9	43.6	1,703	900		[2
		2	9	45.5	54	29			2
Multi- Dwellings- 20 to 49 un	t Count	2	9	45.5	57	31	1,040	3,984	2
tion_HAZUS_SDURS	Count	2	6	100.0	236	260			1
_PBSJ_Minor_Roads	Length (ft)	3,450	7	25.0	690	190		l l	
Single Family Dwelling	Count	3	7	39.1	990	475		[1
		2	7	43.0	30	15			2
Multi- Dwellings- 20 to 49 un	t Count	2	7		30	15	955	1,976	2
Single Family Dwelling	Count	2	5	32.6	531	210	210	531	1
_PBSJ_Minor_Roads	Length (ft)	9,423	3	25.0	1,885	518			
	Length (ft)	2,256	3	- 1	555	0	518	2,440	
n Line	Length (ft)	7,779	5	25.0	1,556	428	428	1,556	
	es_DWR SDURS Single Family Dwelling Multi- Dwellings- 10 to 19 uni Multi- Dwellings- 20 to 49 uni on_HAZUS_SDURS PBSJ_Minor_Roads Single Family Dwelling Multi- Dwellings- 10 to 19 uni Multi- Dwellings- 20 to 49 uni Single Family Dwelling PBSJ_Minor_Roads	es_DWR Length (ft) SDURS Length (ft) Single Family Dwelling Count Multi- Dwellings- 20 to 19 unit Count Multi- Dwellings- 20 to 49 unit Count On_HAZUS_SDURS Count PBSJ_Minor_Roads Length (ft) Single Family Dwelling Count Multi- Dwellings- 10 to 19 unit Count Multi- Dwellings- 20 to 49 unit Count Single Family Dwelling Count Multi- Dwellings- 20 to 49 unit Count Single Family Dwelling Count PBSJ_Minor_Roads Length (ft) Length (ft)	Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample S	Sest DWR Length (ft) 5,048 9	Sest DWR Length (ft) 5,048 9 0.0	Sest	S DWR	S DWR	S DWR

SM-41	Commercial- Professional/ Technical Serv	Count	1	4	28.0	41	2			10
	Commercial- Retail Trade	Count	1	4	18.0	72	36			6
	Delta Roads PBSJ Minor Roads	Length (ft)	218	4	25.0	44	12			6
	Petr Pipelines DWR	Length (ft)	9,239	4	0.0	1,940	0	i		Ö
	Rail HAZUS SDURS	Length (ft)	5,523	4	25.0	1,574	433	483	3,634	1
SM-42	PBSJ Substation	Count	1	5	25.0	1,000	275			0
	Transmission Line	Length (ft)	3,061	4	-	754	0	275	1,754	Ö
SM-43	PBSJ Gas Oil Production Fields	Area (Acres)	95	6	0.0	0	0			0
	PBSJ Gas Oil Wells	Count	6	3		ō	0			ō
	Residential - Single Family Dwelling	Count	2	6	37.0	504	225	225	504	18
SM-44	Delta Roads PBSJ Minor Roads	Length (ft)	10,951	3	25.0	2,190	602			6
	Residential - Single Family Dwelling	Count	4	4	25.8	1,330	402			12
	Transmission Line	Length (ft)	2,710	3	-	667	0	1,005	4,187	0
SM-46	Commercial- Retail Trade	Count	1	4	16.0	6	3			6
	Delta Roads PBSJ Minor Roads	Length (ft)	2,339	4	25.0	468	129	. 132	474	6
SM-47	Solid Waste Facilities	Count	1	3	25.0	0	o	0	0	0
SM-48	Commercial - Entertainment and Recreation		1	4	12.0	1,572	700			0
	Commercial- Professional/ Technical Serv		1	4	22.0	1,832	917			8
	Commercial- Retail Trade	Count	2	4	16.0	32,602	15.241			6
	PBSJ Gas Oil Wells	Count	2	5	•	O	0			0
	Petr Pipelines DWR	Length (ft)	21,217	4	0.0	4,456	0			0
	Rail_HAZUS_SDURS	Length (ft)	10,409	4	25.0	2,967	816	17,674	43,428	1
SM-49	Commercial- Professional/ Technical Serv	Count	2	5	28.0	168	95			10
	Commercial- Retail Trade	Count	2	5	18.0	340	174			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,423	5	25.0	685	188			6
	Petr_Pipelines_DWR	Length (ft)	2,421	5	0.0	508	0			0
	Rail_HAZUS_SDURS	Length (ft)	4,398	5	25.0	1,253	345			1
	Residential - Single Family Dwelling	Count	3	- 5		1,091	382	1,184	4,046	14
SM-51	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	3	6	0.0	0	0	0	0	0
SM-52	Commercial- Retail Trade	Count	2	6		220	119			7.
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	2,395	6	25.0	479	132			6
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	170	6	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	6	6		0	0			0
	Residential - Single Family Dwelling	Count	3	6		682	270			16
	Residential- Multi- Dwellings- 10 to 19 unit		2	6		6	2			15
	Residential- Multi- Dwellings- 20 to 49 unit		2	6		9	4	526	1,396	15
SM-53	Commercial- Retail Trade	Count	1	1	9.0	28	5			3
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	53	1	25.0	11	3			6
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	97	1	0.0	Ŏ.	0	1		0
	PBSJ_Gas_Oil_Wells	Count	1	2	-	0	0			0
	Residential- Multi- Dwellings- 10 to 19 unit		1	1	15.5	2	0	_		7
	Residential- Multi- Dwellings- 20 to 49 unit		1	1	15.5	2	0	8	42	7
SM-54	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	4,280	4	25.0	856	235			6
	PBSJ_Gas_Oil_Wells	Count	3	4		0	0	ŀ		0
	Petr_Pipelines_DWR	Length (ft)	118	4	0.0	25	0			0
011	Rail_HAZUS_SDURS	Length (ft)	3,031	4	25.0	864	238	473	1,745	1
SM-55	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	18,624	8		3,725	1,024			6
	NG_Pipelines_DWR	Length (ft)	4,433	8		842	. 0	1		0
	Petr_Pipelines_DWR	Length (ft)	4,424	8	0.0	929	0	j		. 0

	Residential - Single Family Dwelling	Count	3	8	39.1	848	407	1,431	6,344	19
SM-56	Delta Roads PBSJ Minor Roads	Length (ft)	7,016	5	25.0	1,403	386			. 6
	NG Pipelines DWR	Length (ft)	5,029	5	0.0	956	0			C
	PBSJ Gas Oil Wells	Count	2	6	-	0	0			C
	Petr Pipelines DWR	Length (ft)	3,111	5	0.0	653	0			O
	Residential - Single Family Dwelling	Count	4	5	29.3	1,426	499	885	4,438	14
SM-57	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,910	3	25.0	1,182	325			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	2	0.0	2,000	0			0
	NG_Pipelines_DWR	Length (ft)	536	4	0.0	102	0			0
i	Transmission Line	Length (ft)	5,895	3	-	1,451	0	325	4,735	0
SM-58	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,841	7	25.0	768	211	211	768	6
SM-59	Delta Roads PBSJ Major Roads	Length (ft)	653	4	25.0	215	59			6
	Hwy_HAZUS_SDURS	Length (ft)	632	4	25.0	209	57			3
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	271	4	0.0	0	0	1		0
I	PBSJ_Gas_Oil_Wells	Count	8	3	-	0	0			0
I	Residential - Single Family Dwelling	Count	2	4	29.3	351	123	240	775	14
SM-60	Commercial - Entertainment and Recreation	Count	2	3	12.0	2,748	1,118			0
	Commercial- Professional/ Technical Serv	Count	2	3	22.0	3,880	1,793			8
	Commercial- Retail Trade	Count	2	3	16.0	1,384	594	į		6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,043	3	25.0	209	57			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	6	0.0	2,000	0	3,562	10,221	0
SM-84	Commercial- Retail Trade	Count	2	7	26.0	324	189			9
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	74,034	7	25.0	14,807	4,072			6
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	10	7	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	9	4		0	0			0
	Residential - Single Family Dwelling	Count	15	7	39.1	4,770	2,289	6,549	19,901	19
SM-85-Grizzly_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	58,491	5	25.0	11,698	3,217			6
	NG_Pipelines_DWR	Length (ft)	30,135	5	0.0	5,726	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	190	5	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	12	5	-	0	0			0
	Petr_Pipelines_DWR	Length (ft)	2,326	5	0.0	488	0			0
	Residential - Single Family Dwelling	Count	7	5	32.6	2,360	933	4,150	20,273	16
Smith_Tract	Residential - Single Family Dwelling	Count	1	1	16.4	237	44	44	237	8
Staten_Island	Commercial- Retail Trade	Count	3	23	100.0	738	812			18
	Delta_Roads_PBSJ_Major Roads	Length (ft)	4,422	22	25.0	1,459	401			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	132,282	22	25.0	26,456	7,276			6
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	20	0.0	2,000	0			0
	NG_Pipelines_DWR	Length (ft)	26,159	23	0.0	6,801	0			0
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	1,637	22	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	34	20		0	1 222			0
	Residential - Manufactured Housing	Count	21	23	100.0	986	1,023	44.400		24
	Residential - Single Family Dwelling	Count	9	23	100.0	1,553	1,651	11,162	39,993	24
Sutter Island	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,515	9	25.0	1,160	319			6
	Delta Roads PBSJ Minor Roads	Length (ft)	63,251	9	25.0	12,650	3,479			6
	Hwy_HAZUS_SDURS	Length (ft)	5,146	9	25.0	1,698	467			3
	PBSJ_Gas_Oil_Wells	Count	5	6	100.0	0	0			0
	Residential - Manufactured Housing	Count	2	9	100.0	60	62			24
	Residential - Single Family Dwelling	Count	38	9	43.6	10,256	5,417	40.00	00.00	21
	Residential- Multi- Dwellings- 10 to 19 unit	Count	1	9	45.5	510	276	10,020	26,334	22

Terminous_Tract 1	bridges_not_in_HAZUS	Count	1	1	0.0	1,000	0			
-		Count	4	3	16.0	16	6]		
	Commercial- Retail Trade	Count	4	3	14.0	40	15			
	Delta Roads PBSJ_Minor_Roads	Length (ft)	5,050	3	25.0	1,010	278			
	PBSJ Gas Oil Production Fields	Area (Acres)	28	3	0.0	0	0			
	PBSJ Gas Oil Wells	Count	2	3	- [0	0			
	Residential - Manufactured Housing	Count	8	3	100.0	552	520			24
	Residential - Single Family Dwelling	Count	4	3	20.8	864	209			10
	Schools HAZUS SDURS	Count	4	1	5.0	4,720	1,038	2,066	8,202	
Terminous_Tract 2	Agriculture	Count	5	18	100.0	11,350	10,737			1.
	Boatlaunch	Count	5	20	100.0	500	550			
	Commercial - Wholesale Trade	Count	5	18	100.0	20,310	22,341			1
	Commercial- Professional/ Technical Serv		5	18	100.0	860	946			1
	Commercial- Retail Trade	Count	5	18	100.0	6,410	7,051			1
	Delta Roads PBSJ Major Roads	Length (ft)	3,598	18	25.0	1,187	327			
	Delta Roads PBSJ Minor Roads	Length (ft)	419,694	18	25.0	83,939	23,083	1		
	Hwy Bridge HAZUS SDURS	Length (ft)	1	4	0.0	2,000	0			
	Hwy HAZUS SDURS	Length (ft)	24,236	18	25.0	7,998	2,199			
	PBSJ Cell Towers	Count	1	21		250	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	655	18	0.0	0	ō			
	PBSJ Gas Oil Wells	Count	21	17		0	0			
	Residential - Duplex	Count	9	18	100.0	3,848	4,091			2
	Residential - Manufactured Housing	Count	859	18	100.0	43,998	45,655			2
	Residential - Single Family Dwelling	Count	337	18	100.0	69,152	73,532	190,513	251,802	
Terminous Tract 3	Delta Roads PBSJ Minor Roads	Length (ft)	1,060	3	25.0	212	58			
reminous_maces	Residential - Manufactured Housing	Count	30	3	100.0	1,479	1,393			2.
	Residential - Single Family Dwelling	Count	13	3	20.8	2,360	570	2,022	4.050	1
Twitchell Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	42,409	21	25.0	8,482	2,332		-,,	
I WITCHEIL ISIANG	NG Pipelines DWR	Length (ft)	8,804	21	0.0	2,025	2,002			
	NG Wells DWR Not in PBSJ	Count	3,004	25	- 0.0	2,020	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	2,198	21	0.0	6	0			
	PBSJ Gas Oil Wells	Count	35	19		ő	0			
	Residential - Duplex	Count	2	21	100.0	792	842			2
	Residential - Manufactured Housing	Count	45	21	100.0	2,324	2,411			2
	Residential - Single Family Dwelling	Count	39	21	100.0	8,054	8,564			2
	Residential - Triplex-Quads	Count	2	21	100.0	588	625			2
	Residential- Multi- Dwellings- 10 to 19 unit		2	21	100.0	141	150	14,925	22,405	
Tyler_Island 2	Airports_HAZUS_SDURS	Count		15	25.0	6,431	1,769	11,020	22,100	
i yici_isialiu 2	Delta Roads PBSJ Major Roads	Length (ft)	5,160	19	25.0	1,703	468			
	Delta Roads PBSJ Minor Roads	Length (ft)	167,780	19	25.0	33,556	9,228			-
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	107,780	12	0.0	2,000	9,228			
	NG Pipelines DWR	Length (ft)	35,510	19	0.0	7.457			•	<u> </u>
	PBSJ Gas Oil Production Fields	Area (Acres)	4,237	19	0.0	7,457				
	PBSJ Gas Oil Production Fields PBSJ Gas Oil Wells	Count	4,237 96	18	0.0	0				
				19	100.0	245	254			2
	Residential - Manufactured Housing	Count	2	19	100.0	4,800	5,104			2
	Residential - Single Family Dwelling	Count	17							
	Runway HAZUS SDURS	Count	1 1	3	25.0 25.0	36,674	10,085	26 000	00.000	
	Solid_Waste_Facilities	Count	- 1	-			<u> </u>	26,908	92,866	
Union_Island 1	Dams_HAZUS_SDURS	Count	1	10	0.0	0	0			
	Delta_Roads_PBSJ_Major Roads	Length (ft)	38,706	9	25.0	12,773	3,513	j		

	Delta Roads PBSJ Minor Roads	Length (ft)	340,818	9	25.0	68,164	18,745	1		6
	NG Pipelines DWR	Length (ft)	53.023	9	0.0	10.074	10,740			0
	PBSJ Cell Towers	Count	33,023	2	- 0.0	250				0
	PBSJ Gas Oil Production Fields	Area (Acres)	1,773	9	0.0	200	<u></u>			0
	PBSJ_Gas_Oil_Wells	Count	32	4	0.0					0
	Residential - Duplex	Count	7	9	45.5	2,807	1,521			22
	Residential - Institutional Dormitory	Count	9	9	20.0	51,411	18,248			10
	Residential - Manufactured Housing	Count	35	9	100.0	1,493	1,544	1		24
	Residential - Single Family Dwelling	Count	101	9	43.6	24,785	13,091			21
	Schools HAZUS SDURS	Count	3	5	9.0	3,540	1,616	ŀ		3
	Transmission Line	Length (ft)	123,469	9		30,400	7,010	58,277	205,697	ŏ
Union Island 4	Delta Roads PBSJ Minor Roads	Length (ft)	113	8	25.0	23	6	00,277	200,007	6
Union_isiand 4	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	113	3	0.0	0	0	6	23	0
Hansa Daharta Jaland	Delta_Roads_PBSJ_Minor_Roads		4,078	3	25.0	816	224		20	6
Upper_Roberts_Island	NG Pipelines DWR	Length (ft) Length (ft)	2,484		0.0	472	224			0
	PBSJ Gas Oil Production Fields		230		0.0	0		1		0
	PBSJ Gas Oil Production Fleids PBSJ Gas Oil Wells	Area (Acres) Count	230 5	- 4	0.0		0			0
	Residential - Single Family Dwelling	Count	3		25.8	675	204			12
	Transmission Line	Length (ft)	4,340	4	25.6	1,069	204	428	3.031	0
		0 17		4	0.0		0	420	3,031	0
Van_Sickle_Island	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	294	- /	0.0	0	- 0	1		0
	PBSJ_Gas_Oil_Wells	Count	16	6	39.1	810	389			19
	Residential - Single Family Dwelling	Count	3	6	15.0			46 000	100.810	6
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sewage_Treat	Count		9		100,000	16,500	16,889	100,610	
Veale_Tract 1	Commercial- Professional/ Technical Serv		1	9	47.0	270	189			17
	Commercial- Retail Trade	Count	1	9	34.0	84	53			12
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,221	9	25.0	1,044	287			6
	PBSJ Gas Oil Production Fields	Area (Acres)	86	9	0.0	0	0			0
	PBSJ_Gas_Oil_Wells	Count	5	9	400.0	0	0			24
	Residential - Manufactured Housing	Count	5	9	100.0	266 9,720	275			22
	Residential - Single Family Dwelling	Count	31	9	46.6		5,483	6 000	47.450	0
	Transmission Line	Length (ft)	17,928		25.0	5,772	0	6,286	17,156	
Veale_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,397	3	25.0	279	77	į		6
	NG_Pipelines_DWR	Length (ft)	8	3	0.0	2	0			0
	Residential - Institutional Dormitory	Count	20	3	14.0	99,360	21,495	04.000	400.704	7
	Residential - Single Family Dwelling	Count	39	3	25.8	10,121	3,061	24,633	109,761	12
Venice_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	66,239	27	25.0	13,248	3,643			6
	PBSJ_Gas_Oil_Wells	Count	4	28	400.0	0	0		40.000	0
	Residential - Manufactured Housing	Count	2	27	100.0	60	62	3,705	13,308	24
Victoria_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	67,467	18	25.0	13,493	3,711	1		6
	Hwy_HAZUS_SDURS	Length (ft)	23,053	4	25	7,607	2,092	l		3
	NG_Pipelines_DWR	Length (ft)	9,171	17	0.0	1,742	0	1		0
	PBSJ_Gas_Oil_Wells	Count	2	18	-	0	0	1		0
	Residential - Institutional Dormitory	Count	5	17	100.0	28,835	30,661	1		24
	Residential - Manufactured Housing	Count	1	17	100.0	45	47			24
	Residential - Single Family Dwelling	Count	3	17	100.0	1,196	1,271			24
	Transmission Line	Length (ft)	12,954	18		4,171	0	37,781	57,089	0
Walnut_Grove	Commercial- Professional/ Technical Serv		2	9	47.0	1,108	774			17
	Commercial- Retail Trade	Count	2	9	34.0	576	361	İ		12
	Communication_HAZUS_SDURS	Count	5	3	0.0	590	0			0
	Delta_Roads_PBSJ_Major Roads	Length (ft)	3,282	10	25.0	1,083	298			6

i	Delta Roads_PBSJ_Minor_Roads	Length (ft)	34,909	10	25.0	6.982	1,920	1		6
•	hc ambulatory	Count	34,303	3	12.0	0,302	1,820			- 4
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	2	3	0.0	4,000				C
	PBSJ Gas Oil Production Fields	Area (Acres)	286	10	0.0	4,000	-			0
	PBSJ Gas Oil Wells	Count	5	9	- 0.0			•		0
	Residential - Duplex	Count	21	9	48.0	8,915	5,119			23
	Residential - Duplex Residential - Manufactured Housing	Count	11	9	100.0	653	675			24
	Residential - Single Family Dwelling	Count	205	9	46.6	54,627	30.816	39.963	78.533	22
Water Zone 1	Boatlaunch	Count	10	2	100.0	1,000	1,100	33,303	70,000	0
Water Zone i	Commercial- Professional/ Technical Serv		2	12	100.0	4,400	4,356			18
	Commercial- Retail Trade	Count	2	12	47.0	4,400	3,157	l		17
	Delta Roads PBSJ Major Roads	Length (ft)	24,292	3	25.0	8,016	2,204			6
	Delta Roads PBSJ Minor Roads	Length (ft)	203,862	3	25.0	40,772	11,212	ĺ		6
	Fire Stations HAZUS SDURS	Count	203,002	- 1	7.0	3,540	927			3
3	Hwy Bridge HAZUS SDURS	Length (ft)	2	- 4	0.0	4.000	927			0
				3	25.0	.,	•			3
	Hwy HAZUS SDURS NG Pipelines DWR	Length (ft)	71,412 56,787	3	25.0 0.0	23,566 15,900	6,481	l		3
	PBSJ Gas Oil Production Fields	Length (ft) Area (Acres)	2,533	3	0.0	15,800	- 0	İ		(
					0.0	<u> </u>	0	Ī		
	PBSJ_Gas_Oil_Wells	Count	26	2	05.0	0.000	Ů,			C
	PBSJ_Substation	Count	6	3	25.0	6,000	1,650			C
	Petr_Pipelines_DWR	Length (ft)	460	3	0.0	97	0			0
	Police_Station_HAZUS_SDURS	Count	2	1	7.0	8,260	2,162			3
	Residential - Manufactured Housing	Count	76	3	100.0	4,113	3,982			24
	Residential - Single Family Dwelling	Count	154	3	25.8	38,773	11,729			12
	Residential- Multi- Dwellings- 10 to 19 unit		2	12	100.0	762	810			24
	Residential- Multi- Dwellings- 20 to 49 unit		2	12	100.0	84	89			24
	Schools_HAZUS_SDURS	Count	2	1	5.0	2,360	519	50.070	474 505	2
W-4	Transmission Line	Length (ft)	34,201	3	- 100.0	8,421	0	50,379	174,585	-
Water Zone 2	Boatlaunch	Count	12	2	100.0	1,200	1,320			0
	bridges_not_in_HAZUS	Count	5	7	0.0	5,000	0			C
	Commercial- Professional/ Technical Serv		2	10	100.0	1,752	1,734			18
	Commercial- Retail Trade	Count	2	10	38.0	408	265			14
	Delta_Roads_PB\$J_Minor_Roads	Length (ft)	61,297	6	25.0	12,259	3,371			6
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	818	6	0.0	172	0			C
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	4	3	0.0	8,000	0			C
	Hwy_HAZUS_SDURS	Length (ft)	11,761	6	25.0	3,881	1,067			3
	NG_Pipelines_DWR	Length (ft)	36,582	6	0.0	6,951	0			C
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	2,482	6	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	7,820	4		0	0	1		C
	PBSJ_Mokelumne_Aqueduct	Length (ft)	2,615	6	0	13,075	0	į		<u>C</u>
	PBSJ_Substation	Count	2	14	25.0	2,000	550	ļ		C
	Petr_Pipelines_DWR	Length (ft)	83,727	10	0.0	17,583	0	ľ		
	Ports_HAZUS_SDURS	Count	18	6	0.0	46,303	0	ĺ		C
	Rail_Bridge_HAZUS_SDURS	Count	2	3	25.0	2,000	550	1		1
	Rail_HAZUS_SDURS	Length (ft)	29,631	17	25.0	8,445	2,322			1
	Residential - Institutional Dormitory	Count	2	9	23.0	13,311	5,203	1		11
	Residential - Manufactured Housing	Count	33	6	100.0	1,858	1,887	į		24
	Residential - Single Family Dwelling	Count	247	6	32.6	79,417	31,406	ŀ		16
	Residential- Multi- Dwellings- 10 to 19 unit Residential- Multi- Dwellings- 20 to 49 unit		2	10 10	49.5	651	389	ı		24 24
			2		49.5	1.353	809			

	Sewage Treat	Count	5	7	15.0	1,037,500	171,188	I		(
	Transmission Line	Length (ft)	34,086	6	-	8,392	0	222,061	1,271,511	(
Water Zone 3	air trans	Count	2	1	_	0	0			(
	Boatlaunch	Count	9	2	100.0	900	990			(
	bridges not in HAZUS	Count	2	2	0.0	2,000	0			(
	Commercial- Professional/ Technical Serv	Count	2	10	100.0	4,096	4,055			18
	Commercial- Retail Trade	Count	2	10	38.0	972	631			14
	Delta_Roads_PBSJ_Major Roads	Length (ft)	4,560	2	25.0	1,505	414			
	Delta Roads PBSJ Minor Roads	Length (ft)	77,385	2	25.0	15,477	4,256			(
	Hwy Bridge HAZUS SDURS	Length (ft)	3	1	0.0	6,000	0			
	Hwy HAZUS SDURS	Length (ft)	1,946	3	25.0	642	177			
	NG Pipelines DWR	Length (ft)	6,940	3	0.0	1,596	0			
	PBSJ Gas Oil Production Fields	Area (Acres)	739	2	0.0	0	0	l		
	PBSJ Gas Oil Wells	Count	5	2	-	Ö	0			
	Residential - Duplex	Count	2	3	22.5	1,575	401			1
	Residential - Manufactured Housing	Count	69	3	100.0	3,770	3,553			2
	Residential - Single Family Dwelling	Count	66	3	20.8	15,468	3,738			1
	Residential - Triplex-Quads	Count	2	3	22.5	711	181			1
	Residential- Multi- Dwellings- 10 to 19 unit	Count	2	10	49.5	174	104			2
	Sewage Treat	Count	2	1	15.0	170,000	28,050			
	Transmission Line	Length (ft)	5,264	2	-	1,296	0			
	water trans	Count	2	1	0.0	0	0	46,548	226,182	
Water Zone 4	Boatlaunch	Count	4	2	100.0	400	440			
	Commercial - Entertainment and Recreation	Count	2	3	12.0	2,860	1,164			
	Commercial - Personal and Repair Service	Count	5	3	13.0	11,490	4,740			
	Commercial - Wholesale Trade	Count	2	3	11.0	6,236	2,504			
	Commercial- Professional/ Technical Serv	Count	2	10	47.0	14,496	10,125			1
	Commercial- Retail Trade	Count	2	10	34.0	2,564	1,608			1
	Delta Roads PBSJ Minor Roads	Length (ft)	90,083	4	25.0	18,017	4,955			
	gas pipeline kinder morgan LS 9	Length (ft)	2,097	4	0.0	440	Ö			
	Hwy Bridge HAZUS SDURS	Length (ft)	3	2	0.0	6,000	0			
	Hwy HAZUS SDURS	Length (ft)	7,444	3	25.0	2,457	676			
	NG Pipelines DWR	Length (ft)	21,265	3	0.0	4,040	0			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	134	4	0.0	Ó	0			
	PBSJ_Gas_Oil_Wells	Count	7,820	4	-	0	0			
	PBSJ_Mokelumne_Aqueduct	Length (ft)	8,378	3	0	41,890	0			
	Rail_HAZUS_SDURS	Length (ft)	2,956	11	25.0	842	232			
	Residential - Manufactured Housing	Count	4	3	100.0	326	316			2
	Residential - Single Family Dwelling	Count	67	6	37.0	21,612	9,652			1
	Residential- Multi- Dwellings- 10 to 19 unit	Count	2	10	48.0	1,230	706			2
	Residential- Multi- Dwellings- 20 to 49 unit	Count	2	10	48.0	540	310			2:
	Transmission Line	Length (ft)	8,997	3		2,897	0	37,426	138,337	
Water Zone 5	bridges_not_in_HAZUS	Count	2	17	0.0	2,000	0			
	Commercial- Professional/ Technical Serv	Count	2	12	100.0	52	51			1
	Commercial- Retail Trade	Count	2	12	42.0	1,488	998			1:
	Delta_Roads_PBSJ_Major Roads	Length (ft)	994	9	25.0	328	90			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	13,198	1	25.0	2,640	726	•		1
	Hwy_Bridge_HAZUS_SDURS	Length (ft)	1	1	0.0	2,000	0			
	NG_Pipelines_DWR	Length (ft)	1,155	1	0.0	375	0			(
	PBSJ Gas Oil Production Fields	Area (Acres)	2	1	0.0	Ö	0			

	Petr Pipelines DWR	Length (ft)	333	1	0.0	70	ol	1		
	Rail HAZUS SDURS	Length (ft)	453	1	25.0	129	36			
	Residential - Manufactured Housing	Count	3	1	44.0	180	76	•		
	Residential - Single Family Dwelling	Count	51	1	16.4	17,741	3,262			
	Transmission Line	Length (ft)	3,234	1	-	796	0	5,240	27,800	
Vebb_Tract	NG Pipelines DWR	Length (ft)	1,292	24	0.0	245	0			
_	PBSJ Gas Oil Production Fields	Area (Acres)	83	24	0.0	0	0			
	PBSJ_Gas_Oil_Wells	Count	18	. 21	-	0	0	ľ		
	Residential - Single Family Dwelling	Count	. 1	24	100.0	171	182	182	416	
Voodward_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	28,148	20	25.0	5,630	1,548			
_	gas_pipeline_kinder_morgan_LS_9	Length (ft)	7,820	20	0.0	1,642	0			
	PBSJ_Mokelumne_Aqueduct	Length (ft)	23,350	20	-	116,750	9,760			
	Rail_HAZUS_SDURS	Length (ft)	8,034	4	25	2,290	630	11,938	126,311	
Vright-Elmwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,702	7	25.0	1,940	534			
	PBSJ_Gas_Oil_Wells	Count	2	18	-	0	0	1		
	Residential - Single Family Dwelling	Count	4	10	48.6	1,277	755			
	Residential- Multi- Dwellings- 10 to 19 unit		1	16	100.0	81	86			
	Residential- Multi- Dwellings- 20 to 49 unit		1	16	100.0	27	29			
	Transmission Line	Length (ft)	53,221	14	-	13,104	0	1,403	16,429	
olo_Bypass	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	983	2	25.0	197	54	54	197	
one 14	NG_Pipelines_DWR	Length (ft)	2,273	10	0.0	432	0			
	PBSJ_Gas_Oil_Wells	Count	1	10	-	0	0	0	432	
one 155	Transmission Line	Length (ft)	769	5	-	189	0	0	189	
one 162	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,564	5	25.0	713	196			
	NG_Pipelines_DWR	Length (ft)	1,545	5	0.0	294	0			
	Residential - Single Family Dwelling	Count	6	5	29.3	1,714	600	796	2,720	
one 186	Transmission Line	Length (ft)	13,335	5	0.0	3,283	0	0	3,283	
one 206	bridges_not_in_HAZUS	Count	1	2	0.0	1,000	0			
	Commercial - Entertainment and Recreation	Count	1	4	14.0	1,868	884	l		
	Commercial - Personal and Repair Service	Count	1	4	16.0	1,908	923	l		
	Commercial - Wholesale Trade	Count	1	4	13.0	3,678	1,719	Ī		
	Commercial- Professional/ Technical Serv		1	4	28.0	1,820	1,001	ŀ		
	Commercial- Retail Trade	Count	1	4	18.0	948	469	ŀ		
	Delta_Roads_PBSJ_Major Roads	Length (ft)	7,934	4	25.0	2,618	720			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	484	4	25.0	97	27			
	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	4	4	0.0	0	0	l		
	PBSJ_Gas_Oil_Wells	Count	3	4		0	0			
	Petr_Pipelines_DWR	Length (ft)	31,152	4	0.0	6,542	0			
	Rail_HAZUS_SDURS	Length (ft)	7,825	4	25.0	2,230	613			
	Residential - Institutional Dormitory	Count	1	4	15.0	2,568	631	6,988	25,277	
one 207	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,856	5	25.0	371	102			
	Petr_Pipelines_DWR	Length (ft)	1,906	5	0.0	400	0			
	Rail_HAZUS_SDURS	Length (ft)	4,131	5	25.0	1,177	324	426	1,949	
one 31	<u> </u>	Count	3	1	16.4	968	178	178	968	
one 33		Count	2	1	16.4	489	90	90	489	
one 36		Count	2	2	20.8	810	196			
	Residential- Multi- Dwellings- 10 to 19 unit		2	2	22.5	12	3	1		
	Residential- Multi- Dwellings- 20 to 49 unit		2	2	22.5	9	2	1		
	Solid Waste Facilities	Count	2	11	25.0	Ó	0	201	831	

Zone 37	Commercial - Entertainment and Recreation	Count	3	6	16.0	4,338	2,267			0
·	Commercial- Professional/ Technical Serv	Count	3	6	35.0	816				13
	Commercial- Retail Trade	Count	3	6	20.0	858	467			7
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	501	6	25.0	100	28			6
	hc_ambulatory	Count	3	1	11.0		0			4
	Hwy_HAZUS_SDURS	Length (ft)	61	6	25.0		6			3
	Petr_Pipelines_DWR	Length (ft)	487	6	0.0		0			0
	Rail_HAZUS_SDURS	Length (ft)	496	6	25.0	141	39			1
	Residential - Manufactured Housing	Count	7	6	100.0	399				24
	Residential - Single Family Dwelling	Count	10	6	32.6					16
	Residential- Multi- Dwellings- 10 to 19 unit		3	6	32.0		37			15
	Residential- Multi- Dwellings- 20 to 49 unit	Count	3	6	32.0	540	221	4,741	9,235	15
Zone 38	Commercial- Professional/ Technical Serv	Count	2	2	16.0		27			6
	Commercial- Retail Trade	Count	2	2	14.0		18			5
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	516		25.0		28			6
	Hwy_HAZUS_SDURS	Length (ft)	95		25.0		9			3
	Petr_Pipelines_DWR	Length (ft)	1,314		0.0					0
	Rail_HAZUS_SDURS	Length (ft)	1,560	2	25.0		122			1
	Residential- Multi- Dwellings- 10 to 19 unit		2	2	22.5		1			11
	Residential- Multi- Dwellings- 20 to 49 unit	Count	2	2	22.5	12	3	208	1,014	11
Zone 64	PBSJ_Gas_Oil_Production_Fields	Area (Acres)	1	1	0.0		0		·	0
	Residential - Single Family Dwelling	Count	3	1	16.4	882	162	162	882	8
Zone 90	Hazmat_HAZUS_SDURS	Count	3	1		0	0			0
İ	Petr_Pipelines_DWR	Length (ft)	27	3	0.0		0			0
	Rail_HAZUS_SDURS	Length (ft)	14	3	25.0	4	1	. 1	10	1

Table 7-4b: Estimate Summary of Asset Cost Damage by Island - Mean Higher High Water - (2050)

Island Name	Total Repair Costs (\$1,000)	Content Value (\$1,000)	Percent of Value Damaged (\$1,000)
Bacon_Island	31,587	43,917	72
Bethel_Island	418,770		95
Bishop_Tract	3,365		18
Bixler_Tract	380		30
Bouldin_Island	14,359	·	55
Brack_Tract	5,608		28
Bradford_Island	11,554		53
Brannan-Andrus Island	182,948		69
Browns_Island	0	_	0
Byron_Tract 1	37,596 4,646		17 20
Byron_Tract 2 Cache Haas Tract 1	4,419		21
Cache Haas Tract 2	1,234		29
Canal Ranch	15,430		63
Chipps Island	10,400		0
Clifton Court Forebay Water	717		17
Coney Island	23,296		106
Deadhorse Island	281		28
Decker Island	0	1,536	0
Egbert_Tract	8,559	35,942	24
Elk_Grove 1	69	252	28
Empire_Tract	10,855	30,527	36
Fabian_Tract	26,207	85,513	31
Fay Island	6		28
Glanville_Tract	1,341		21
Grand Island	193,064		76
Hastings_Tract 1	3	6	47
Hastings_Tract 2	2,742		23
Holland_Land	6,187		28
Holland_Tract	6,432		41
Honker_Bay_Club	317		12
Hotchkiss_Tract 1	94,936	· · · · · · · · · · · · · · · · · · ·	49
Hotchkiss_Tract 2	379 3,266		21
Jersey_Island Jones_Tract-Upper_and_Lower	89,642		13 17
King Island	140,702		89
Libby_McNeil_Tract 1	11,348		41
Libby_McNeil_Tract 2	716		39
Liberte Island	1,968		13
Lincoln Village Tract	5,195		27
Lisbon_District	3,653		28
Little Holland Tract	0	·	. 0
Little Egbert□ Tract	4,938	12,608	39
Lower_Roberts_Island	989	2,933	34
Mandeville_Island	1,433		28
McCormack_Williamson_Tract	546		18
McDonald_Tract	21,141		58
McMullin_Ranch-River_Junction Tract	2,092		28
Medford_Island	4,637		54
Merritt Island	7,818		33
Middle_Roberts_Island	54,828		10
Netherlands 2	35,521		30
New_Hope_Tract	26,342		42
Orwood_Tract	52,616		21
Palm_Tract	6,973		31
Peter Pocket	619 11,447		24 28
Pico_Naglee_Tract			28 46
Pierson_Tract Pittsburg	42,381 7,707		22
Prospect Island	7,707 545		30
Quimby_Island	134		12
Rindge Tract	23,783	I	33
Rio Blanco Tract	23,763		4
Roberts Island	4,386		29
1.1020110_1010110	-7,000	10,040	4.0]

Rough_and_Ready_Island	19,537	50,514	39	
Ryer Island	24,503	42,835	57	
Sargent_Barnhart_Tract 2	327,072	696,609		
Sargent_Barnhart_Tract 3	5,893	33,574	18	
Schafter-Pintail Tract	2,265	6,808	33	
Sherman_Island	31,400	127,950		
Shima_Tract	286	7,177	4	
Shin_Kee_Tract	82	807	10	
Simmons-Wheeler_Island	299 908	756 5,447	40 17	
SM-123 SM-124	69,663	337,147	. 21	
SM-132	277	525	53	
SM-133	0	020	0	
SM-134	0	0		
SM-198	1,040	3,984	26	
SM-199	955	1,976	48	
SM-202	210	531	40	
SM-39	518	2,440	21	
SM-40	428	1,556		
SM-41	483	3,634	13	
SM-42	275	1,754	16	
SM-43	225	504	45	
SM-44 SM-46	1,005 132	4,187 474	24 28	
SM-47	132	474	28	
SM-48	17,674	43,428	41	
SM-49	1,184	4,046	29	
SM-51	0	0	0	
SM-52	526	1,396	38	
SM-53	8	42	19	
SM-54	473	1,745	27	
SM-55	1,431	6,344	23	
SM-56	885	4,438	20	
SM-57	325	4,735	7	
SM-58	211	768		
SM-59	240	775	31	
SM-60	3,562	10,221	35	
SM-84	6,549	19,901	33	
SM-85-Grizzly_Island Smith Tract	4,150	20,273 237	20 18	
Staten Island	11,162	39,993	28	
Sutter Island	10,020	26,334	38	
Terminous Tract 1	2,066	8,202	25	
Terminous Tract 2	190,513	251,802	76	
Terminous_Tract 3	2,022	4,050	50	
Twitchell_Island	14,925	22,405		
Tyler_Island 2	26,908	92,866	29	
Union_Island 1	58,277	205,697	28	
Union_Island 4	6	23		
Upper_Roberts_Island	428		14	
Van_Sickle_Island Veale Tract 1	16,889			
Veale_Tract 1 Veale_Tract 2	6,286 24,633		22	
Venice Island	3,705	13,308		
Victoria Island	37,781	57,089		
Walnut Grove	39,963			
Water Zone 1	50,379			
Water Zone 2	222,061	1,271,511	17	
Water Zone 3	46,548	226,182		
Water Zone 4	37,426	138,337	27	
Water Zone 5	5,240			
Webb_Tract	182	416		
Woodward_Island_	11,938	126,311	9	
Wright-Elmwood_Tract	1,403		9	
Yolo_Bypass	54	197	28	
Zone 14	0		0	
Zone 155	796			
Zone 162 Zone 186	796			
Zone 100 Zone 206	6,988	25,277	28	
COLIE COO	0,800	25,277	46	

Zone 207	426	1,949	22
Zone 31	178	968	18
Zone 33	90	489	18
Zone 36	201	831	24
Zone 37 Zone 38	4,741	9,235	51
Zone 38	208	1,014	21
Zone 64	162	882	18
Zone 90	1	10	11
TOTAL (\$1,000)	3,034,185	8,464,672	36

Table 7-5 a: Estimate of Asset Cost Damage and Repair Times- 100-year Flood- 2050

Total Asset Value: \$67.1 Billion

1	2	3	4	5	6	7	8	9	10	11
Island Name	Asset Type	Inventory Unit	Quantity (Expected 2050)	Expected Inundation Depth (2050 Conditions)	Percent Damage	Total Asset Value (Structure + Contents) (\$1,000)	I otal Inundation Repair Costs (Structure + Contents + Debris)	Per Island Inundation Repair Costs (\$1000)	Per Island Asset Value (\$1000)	Repair Time (Months)
Bacon_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,655	26		7,531	2,071			6
	gas_oil_wells	Count	8	26		0	0			0
	Natural Gas Pipeline	Length (ft)	28,289	26		8,628	0	[0
	Residential - Institutional and Dormitory	<u> </u>	5		1	27,758	29,515	31,587	43,917	24
Bethel_Island	Boatlaunch	Count	6			600	660			0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	273,225	16		54,645	15,027			6
	Gas_Oil_Production_Fields	Area (Acres)	722	16		0	0			0
	gas_oil_wells	Count	24	16		0	0			0
	Natural Gas Pipeline	Length (ft)	23,384	16		4,443	0		1	0
· ·	Natural Gas Wells	Count	2	18		0	0		1	0
	Residential - Duplex	Count	13	16		6,441	6,848			24
	Residential - Manuf. Housing	Count	785	16		40,168	41,681			24
	Residential - Multi-Dwellings- 20 to 49 ur	Count	2	16		2,430	2,584			24
	Residential - Single Family Dwelling	Count	1,206	16		331,005	351,969			24
	solid_waste_facilities	Count	2	14		0				0
	utilities	Count	1	13		0	0			0
	water_trans	Count	4	13	-	0	0	418,770	439,732	0
Bishop_Tract	Boatlaunch	Count	1	11		100	110			0
	Commercial - Retail Trade	Count	1	11	38	36	23			14
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	2,483	11	25	819	225			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	91,434	11	25	18,287	5,029			6
	Gas_Oil_Production_Fields	Area (Acres)	98	25	0	0	0			0
	gas_oil_wells	Count	1	14	0	0	0			0
	Hwy Bridge HAZUS SDURS	Count	6	5	25	12,000	3,300			3
	Hwy HAZUS SDURS	Length (ft)	10,846	11	25	3,579	984			3
	Residential - Manuf. Housing	Count	1	11	100	39	40			24
	Residential - Single Family Dwelling	Count	304	11	49	94,247	55,723			23
	Residential - Triplex-Quads	Count	1	11	50	297	178			24
	substation ca	Count	2	7	25	2,000	550	·		0
	transln_ca	Length (ft)	39,459	11	-	9,715	0	66,163	141,119	0
Bixler_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	240	6	25	48	13			6
	Gas Oil Production Fields	Area (Acres)	87	6		0	0			0
	gas oil wells	Count	3	6	o	0	0			0
	Residential - Single Family Dwelling	Count	5	6		1,885	842	855	1,933	18
Boggs_Tract	bridges not in HAZUS	Count	4	4		4,000	1,100			3
-	Commercial - Personal and Repair Servi		2	4	16	5,600	2,710			6
	Commercial - Professional and Technica		2	4	28	39,968	21,982		i i	10
	Commercial - Retail Trade	Count	2	4	18	43,116	21,342			.0
		1000111			0	70,110	21,042	l		U

	Commercial - Wholesale Trade	Count	23	41	13	106,628	49,849	1	1	
	Delta Roads PBSJ Major Roads	Length (ft)	21,847	4	25	7,210	1,983			6
	Delta Roads PBSJ Minor Roads	Length (ft)	231,689	4	25	46,338	12,743	1		
	Elec_Power_HAZUS_SDURS	Count	201,000	7 7	100	129,800	142,780			
	Gas Oil Production Fields	Area (Acres)	68	4	0	0	142,700			
	Hazmat HAZUS SDURS	Count	33	7		ő		}		
	hc ambulatory	Count	2	4	13	o o	<u>ŏ</u> l	i		5
	hc nursing res	Count	2	2	10	0				
	Hwy Bridge_HAZUS_SDURS	Count	6	6	25	12,000	3,300	i		
	Hwy HAZUS SDURS	Length (ft)	7.385	4	25	2,437	670			
	Industrial - Heavy	Count	7,303	4	19	45,835	19,562	ŀ		7
		Count	2	4	22	14,810	6,516	l		,
	Industrial - Light		9	4		14,010	0,510	- 1		
	intermodal_terminal_facilities	Count					尚	l		
	Petroleum Pipelines	Length (ft)	23,797	4 6	<u>'</u>	4,997		I		
	pipeline_trans	Count			-	54,000		l		
	Port_HAZUS_SDURS	Count	21	2	0	54,020	0	I		
	rail_1000_nodes	Count	18	5	-	0	0	ŀ		
	Rail_Bridge_HAZUS_SDURS	Count	4	3	25	4,000	1,100	ł		
	Rail_Facility_HAZUS_SDRUS	Count	7	2	25	18,007	4,952	i		C
	Rail_HAZUS_SDURS	Length (ft)	35,489	4	25	10,114	2,781	l		1
	Residential - Duplex	Count	61	4	29	27,395	9,442	l		14
	Residential - Institutional and Dormitory	H Count	2	4	15	10,455	2,568			. 7
	Residential - Manuf, Housing	Count	59	4	100	2,650	2,623			24
	Residential - Single Family Dwelling	Count	4,089	4	29	1,041,665	364,756			14
	Residential - Triplex-Quads	Count	2	4	29	3,165	1,091			14
	Schools_HAZUS_SDURS	Count	6	1	5	7,080	1,558			2
	sewage_treat	Count	2	4	30	1,100,000	363,000			12
	solid_waste_facilities	Count	2	4	25	0	0			
	substation_ca	Count	1	6	25	1,000	275			
	tankfarms	Count	9	10	-	27,000	0			C
	utilities	Count	1	15	- 1	0	0			
	Waste Water HAZUS SDURS	Count	2	3	20	157,176	34,579			12
	water trans	Count	4	5	-	0	0	1,073,264	2,926,466	C
Bouldin Island	air trans	Count	1	26	-	0	0			C
	Commercial - Professional/ Technical S	1	1	24	100	7,584	8,342	1		18
	Commercial - Retail Trade	Count	1	24	100	1,188	1,307	•		18
	Delta Roads PBSJ Major Roads	Length (ft)	1,506	24	25	497	137	l		6
	Delta Roads PBSJ Minor Roads	Length (ft)	43,282	24	25	8,656	2,381	į		6
	gas oil wells	Count	17	24	0	0	2,551			
	Hwy HAZUS SDURS	Length (ft)	24,159	24	25	7,972	2,192			3
	utilities	Count	1	9		0	2,102	14,359	25,898	Č
Brack Tract	Delta Roads PBSJ Minor Roads	Length (ft)	68,203	17	25	13,641	3,751	,500	20,000	(
Diack_Hack	Gas Oil Production Fields	Area (Acres)	874	18	0	13,041	3,731			
	gas oil wells	Count	19	17	ol ol	0				
	Natural Gas Pipeline	Length (ft)	25,968	17	0	5,973				
	Residential - Manuf. Housing	Count	25,966	17	100	873	906	į		24
	<u>-</u>		18		100			6.118	21.860	24
D 464 1-1 '	Residential - Single Family Dwelling	Count	•	19		1,374	1,461	0,118	∠1,000	
Bradford_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	57,920	21	25	11,584	3,186			- 6
	gas_oil_wells	Count	. 16	22	0	0	0			(
	Natural Gas Pipeline	Length (ft)	7,466	21	0	2,165	0			(
	Natural Gas Wells	Count	6	22		0	0			(
	Residential - Duplex	Count	1	21	100	219	233			24
	Residential - Manuf. Housing	Count	9	21	100	444	461			24

	Residential - Single Family Dwelling	Count	27	21	100	7,218	7,675	11,554	21,630	24
Brannan-Andrus Island	air_trans	Count	2	10	-	0	0			(
	Boatlaunch	Count	10	9	100	1,000	1,100	•		(
	Commercial - Entertainment and Recre	a Count	2	23	100	5,984	6,582			18
	Commercial - Professional/ Technical S		2	23	100	15,264	16,790	ı		18
	Commercial - Retail Trade	Count	2	23	100	10,952	12,047	l	İ	1:
	Delta Roads PBSJ Major Roads	Lenath (ft)	28.730	23	25	9,481	2,607	l	l	
	Delta Roads PBSJ Minor Roads	Length (ft)	316,305	23	25	63,261	17,397	I		
	Gas Oil Production Fields	Area (Acres)	9,133	23	o	0	0	l		
	gas oil wells	Count	157	20	Ö	0	Ō	l		
	hc hospital	Count	2	16	100	0	0	Į		1
	Hwy_Bridge_HAZUS_SDURS	Count	3	8	25	6,000	1,650	l		· · · · · · · · · · · · · · · · · · ·
	Hwy HAZUS SDURS	Length (ft)	55,613	23	25	18,352	5,047	l	İ	
	Natural Gas Pipeline	Length (ft)	75,806	23	0	17,814	0,547	- 1	l	
	Natural Gas Wells	Count	86	20		17,014	ő	1		
	rail 1000 nodes	Count	2	21		0		Į		
	Residential - Duplex	Count	8	23	100	5,212	5,542	I		2
	Residential - Duplex Residential - Manuf. Housing	Count	356	23	100	18,442	19,137	1	İ	2
	Residential - Multi-Dwellings - 5 to 9 un		2	23	100	7,158	7,611	1		2
	Residential - Multi-Dwellings - 5 to 9 uni			23	100	1,404				2
			2				1,493	l	İ	
	Residential - Single Family Dwelling	Count	365	23	100	78,720	83,705	I	-	2
rowns_island	Residential - Triplex-Quads	Count	4	23	100	4,172	4,436	1		2
	solid_waste_facilities	Count	2	22	25	0	0	l		
	transln_ca	Length (ft)	19,080	23	-	4,698	0	105 115	007.044	
	water_trans	Count	3	15	-	0	0	185,145	267,914	
Browns_Island	Hazmat_HAZUS_SDURS	Count	2	9		0	0	_	_	
•	solid_waste_facilities	Count	1	9	25	0	0	0	0	
Byron_Tract 1	air_trans	Count	2	9	-	0	0	-		
	Commercial - Professional/ Technical S		2	16	100	4	4	i		1
	Commercial - Retail Trade	Count	2	16	100	60	66			1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,456	16	25	5,291	1,455	i		
	gas_oil_wells	Count	2	10	0	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	. 2	6	25	4,000	1,100	i		
	Hwy_HAZUS_SDURS	Length (ft)	6,850	16	25	2,261	622			
	Residential - Manuf. Housing	Count	4	16	100	236	245			2
	Residential - Single Family Dwelling	Count	12	16	100	3,238	3,443			2
	sewage_treat	Count	2	20	30	200,000	66,000	l.		1
	transln_ca	Length (ft)	38,966	16	-	12,546	0	72,935	227,636	
Byron_Tract 2	Boatlaunch	Count	2	5	100	200	220	·		
	bridges_not_in_HAZUS	Count	5	15	25	5,000	1,375			
	Commercial - Professional/ Technical S	e Count	2	12	100	2,128	2,107			1
	Commercial - Retail Trade	Count	2	12	42	460	309			1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,586	12	25	2,917	802			
	gas oil wells	Count	1	3	ol	0	0	l		
	Residential - Manuf. Housing	Count	4	12	100	142	147	l		2-
	Residential - Single Family Dwelling	Count	18	12	100	5,843	6,213	l		2
	transin ca	Length (ft)	27,831	12		8,961	0	11,173	25,651	_
Byron Tract 3	Commercial - Professional/ Technical S		1	6	38	1,608	1,035	,	22,301	1-
-3	Commercial - Retail Trade	Count	1	6	23	506	284	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	3,544	6	25	709	195	l		
	Residential - Single Family Dwelling	Count	107	6	37	40,992	18,307	19,821	43,815	1.
Cache_Haas_Tract 1			16,839	9				18,021	40,010	
Cache_nads_fract f	Delta Roads PBSJ Major Roads	Length (ft)			25	5,557	1,528	ł		
	Delta Roads PBSJ Minor Roads	Length (ft)	194,722	9	25	38,944	10,710		i	

	Gas Oil Production Fields	Area (Acres)	3,779	9	ol	ol	0		r
	gas oil wells	Count	102	8	0	0		1	
	Hwy Bridge HAZUS SDURS	Count	102	5	25	2,000	550	l	
	Natural Gas Pipeline		· · · · · · · · · · · · · · · · · · ·	9		2,000 8,679			-
		Length (ft)	45,680		0		<u>0</u>		
	Natural Gas Wells Residential - Manuf. Housing	Count	2	12 9	100	0	157		
		Count	18			152			
	Residential - Single Family Dwelling	Count	18,295	9 9	44	4,662	2,527 0	45 470	05 004
	transin_ca	Length (ft)	,		-	5,890		15,472	65,884
Cache_Haas_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,203	15	25	1,841	506		
		Area (Acres)	604	15	0	0			
	gas_oil_wells	Count	20	16	0	0			
	Natural Gas Wells	Count	1	15	-	0		1	
		Count	1	15	100	30	31		
		Count	5	15	100	1,373	1,459		
	transin_ca	Length (ft)	567	15	-	183	0	1,997	3,426
anal Ranch									
		Count				5,634			
	Delta Roads PBSJ Major Roads Length (ft) 1,401 14 25 462 127 Delta Roads PBSJ Minor Roads Length (ft) 60,509 14 25 12,102 3,328 Gas Oil Production Fields Area (Acres) 294 14 0 0 0 gas oil wells Count 11 18 0 0 0 Hwy Bridge HAZUS SDURS Count 3 13 25 6,000 1,650								
		·····							
	Hwy_HAZUS_SDURS	Length (ft)	4,670	14	25	1,541	424	1	
	Natural Gas Pipeline	Length (ft)	1,066	14	0	203	0	1	
		Count	1	20	-	Ó	0		
	Religion - Churches and other Non-Profit	Count	3	14	30	14,850	9,311	ı	
	Residential - Manuf. Housing	Count	15	14	100	710	737		
	Residential - Single Family Dwelling	Count	7	14	100	1,260	1,340	32,559	51,348
hipps_Island	gas_oil_wells	Count	2	9	0	0	0	0	0
lifton Court Forebay Water	Boatlaunch	Count	1	14	100	100	110		
-	Commercial - Professional/ Technical Se	Count	1	14	100	394	433		
	Commercial - Retail Trade	Count	1	14	100	86	95		
	Residential - Single Family Dwelling	Count	2	14	100	515	547		
	transln ca	Length (ft)	9,887	14	-1	3,183	0	1,185	4,278
oney_Island		Count	10	21	100	507	526		
		Count	66	21	100	21,414	22,770	23,296	21,921
eadhorse Island		Area (Acres)	201	20	0	0	0	23,230	-1,021
		Count	3	19	ol	ő	0	j	-
	 	Length (ft)	3,862	20	0	734	<u>o</u>		
	Residential - Multi-Dwellings- 10 to 19 un		1	20	100	7 3 4	10		
		Count		20	100	255	271	281	998
ecker Island	Natural Gas Pipeline	Length (ft)	8,085	4	0	1,536	0	0	1,536
iscovery_Bay		Count	6,003	5	100	1,036		<u> </u>	1,000
		Count	1	10			110		
					28	1,148	682		
			8	10	29	12,944	7,760	1	
	Commercial - Entertainment and Recrea Count Commercial - Medical Clinics Count Commercial - Professional/ Technical Se Count						i		
		cial - Medical Clinics Count 1 10 24 3,503 2,219 cial - Professional/ Technical Se Count 1 10 50 15,930 11,390 cial - Retail Trade Count 1 10 38 7,842 5,089 coads PBSJ_Minor_Roads Length (ft) 97,988 10 25 19,598 5,389							
	Commercial - Professional/ Technical Se Count 1 10 50 15,930 11,390 Commercial - Retail Trade Count 1 10 38 7,842 5,089 Delta_Roads_PBSJ_Minor_Roads Length (ft) 97,988 10 25 19,598 5,389 ho_ambulatory Count 5 8 18 0 0								
						0			
	Hwy_HAZUS_SDURS	Length (ft)	6,674	10	25	2,202	606		
		Count	1	10	50	1,863	1,113	1	
	Residential - Manuf. Housing	Count	1	10	100	165	171	1	

	Residential - Single Family Dwelling	Count I	2,799	10	49	1,080,710	638,969	1		23
	Schools HAZUS SDURS	Count	1	12	24	1,180	701			
	water trans	Count	- il -	1		1,100	0	674,201	1,147,184	
Egbert_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	197,483	13	25		10,862	014,201	1,147,104	
Egbert_riact	Gas Oil Production Fields	Area (Acres)	3,532	13	20		10,802			
	gas oil wells	Count	107	12	0					
	Natural Gas Pipeline	Length (ft)	34,321	13	0					
			34,321	11		-,	<u> </u>			
	Natural Gas Wells	Count			400	0	104			
	Residential - Manuf. Housing	Count	3	13	100	185	191			24
	Residential - Single Family Dwelling	Count	24	13	100	6,176	6,567			24
	transln_ca	Length (ft)	12,395	13	-	3,991	0	17,620	58,085	(
Elk_Grove 1	bridges_not_in_HAZUS	Count	17	8	25		4,675			
	Commercial - Entertainment and Recrea		6	10	26	11,596	6,760			
	Commercial - Medical Clinics	Count	4	10	22	11,310	7,066			
	Commercial - Personal and Repair Servi		6	10	32		8,634			1:
	Commercial - Professional/ Technical Se		2	10	47	23,628	16,504			1
	Commercial - Retail Trade	Count	2	10	34		9,759			1:
	Commercial - Wholesale Trade	Count	2	10	29	18,484	11,081			10
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	45,032	10	25	14,861	4,087			(
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	463,707	10	25	92,741	25,504			(
	Gas_Oil_Production_Fields	Area (Acres)	599	10	0	Ó	0			
	gas_oil_wells	Count	26	9	0	0	0			(
	hc_ambulatory	Count	25	5	14	0	0			
	hc nursing res	Count	2	4	14	0	0			
	Hwy Bridge HAZUS SDURS	Count	12	15	25	24,000	6,600			
	Hwy HAZUS SDURS	Length (ft)	25,677	10	25	8,473	2,330			
	Industrial - Construction	Count	2	10	100	10,772	9,598			18
	Industrial - Heavy	Count	2	10	39	11,505	6,682			14
	Industrial - High Technology	Count	6	10	34	106,690	59,618			1:
	Industrial - Light	Count	4	10	37	18,630	10,656			13
	Natural Gas Pipeline	Length (ft)	22,432	10	0		10,000			
	Natural Gas Wells	Count	1	14	-	7,230	0			(
	rail 1000 nodes	Count	2	12		0	0			
	Rail HAZUS SDURS	Length (ft)	18.982	10	25	5,410	1,488			
	Residential - Duplex	Count	10,902	10	48	4,332				23
	Residential - Manuf. Housing	Count	51	10	100	3,893	2,487 4,025			24
	Residential - Multi-Dwellings - 5 to 9 units		8							
	Residential - Multi-Dwellings - 3 to 9 unit		2	10	48 48	31,845	18,285			23
			2			5,019	2,882			2:
	Residential - Multi-Dwellings- 20 to 49 un			10	48	2,883	1,655			2
	Residential - Single Family Dwelling	Count	6,574	10	47	2,040,078	1,150,842			2
	Residential - Triplex-Quads	Count	8	10	48	10,473	6,014			. 2
	substation_ca	Count	1	15	25	1,000	275			
	transin_ca	Length (ft)	42,091	10	-	10,363	0			(
	utilities	Count	1	2	-	0	0	1,377,509	2,521,857	(
Empire_Tract	Boatlaunch	Count	4	31	100	400	440			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	136,955	28	25	27,391	7,533			
	gas_oil_wells	Count	5	26	0	0	0			(
	Residential - Manuf. Housing	Count	19	28	100	1,031	1,070			24
	Residential - Single Family Dwelling	Count	10	28	100	1,705	1,813	10,855	30,527	2-
abian_Tract	air_trans	Count	4	12	-	0	0			. (
	Boatlaunch	Count	4	14	100	400	440			
	Commercial - Retail Trade	Count	4	14	100	1,384	1,522			18
	Delta Roads PBSJ Major Roads	Length (ft)	5,137	14	25	1,695	466	l		

	Delta Roads PBSJ Minor Roads	Length (ft)	236,758	14	25	47,352	13,022	1	1	
	gas oil wells	Count	200,700	13		41,552	13,022			<u> </u>
	Natural Gas Pipeline	Length (ft)	1,818	14		345				·
	Residential - Duplex	Count	1,010	14		4,961	5,275			2
	Residential - Institutional and Dormitory		7	14		32.886	17,750			1
	Residential - Manuf, Housing	Count	45	14		2,316	2,403			2
	Residential - Single Family Dwelling	Count	86	14						
	transln ca					18,075	19,220	00.000	445 450	2
Paulaland		Length (ft)	24,538	14		6,042	0	60,099	115,456	
Fay Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	113	17	25	23	6	6	23	
Glanville_Tract	Commercial - Retail Trade	Count	2	10		2,720	1,765			1
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	29,511	10		9,739	2,678			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	62,569	10		12,514	3,441			
	Gas_Oil_Production_Fields	Area (Acres)	129	10		0	0			
	gas_oil_wells	Count	18	12		0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	8	9		16,000	4,400			
	Hwy_HAZUS_SDURS	Length (ft)	18,225	10		6,014	1,654			
	Natural Gas Pipeline	Length (ft)	383	10		124	0			
	Rail_HAZUS_SDURS	Length (ft)	9,282	10	25	2,645	727			
	Residential - Institutional and Dormitory I	Count	2	10	26	5,232	2,225			1:
	Residential - Manuf. Housing	Count	5	10		195	202			2.
	Residential - Multi-Dwellings- 10 to 19 ur	Count	2	10	50	93	56			2.
	Residential - Single Family Dwelling	Count	18	10	49	4,307	2,547	19,696	59,584	2
Gliole_District	Delta_Roads_PBSJ_Major_Roads	Length (ft)	7,030	14	25	2,320	638			4
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,047	14	25	209	58			,
	Hwy HAZUS SDURS	Length (ft)	267	14	25	88	24			
	Rail HAZUS SDURS	Length (ft)	7,101	14	25	2,024	557			
	Residential - Multi-Dwellings- 10 to 19 ur		2	14	100	21	22			24
	Residential - Single Family Dwelling	Count	5	14	100	1,513	1,609			24
	transln ca	Length (ft)	7,489	14		1,844	0	2,908	8.019	
Grand Island	Agriculture	Count	1	22	100	8,486	8,028	2,000	0,010	18
	Boatlaunch	Count	1	22	100	100	110			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Commercial - Banks	Count	1	22	100	1.084	1,192			18
	Commercial - Professional/ Technical Se		1	22	100	6,378	7,016			1
	Commercial - Retail Trade	Count	1	22	100	6,638	7,302			18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,301	22	25	1,089	300			
	Delta Roads PBSJ Minor Roads	Length (ft)	169,392	22	25	33.878	9,317			
		Area (Acres)	2,801	22	0	33,070	9,517	1		
	gas oil wells	Count	96	21	0	0		Ī		
	Hwy Bridge HAZUS SDURS	Count	30	10	25	4,000	1,100			
	Hwy HAZUS SDURS	Length (ft)	75,586	22	25	24,943	6.859			
	Industrial - Light	Count	70,000	22	100	39,675	.,			
	Natural Gas Pipeline	Length (ft)	11,590	22	0		38,405			18
	Natural Gas Wells	Count	11,590	21	- V	2,202	0			(
		Count	5	22	100	2,526		l		(
	Residential - Institutional and Dormitory I		1	22 22			2,686	1		24
		Count	39		100	5,649	6,007	l		24
	Residential - Multi-Dwellings- 10 to 19 ur		39	22	100	2,070	2,148	1		24
				22	100	3,597	3,825	į		24
		Count	366	22	100	97,203	103,359			24
	···	Count	1]	29	100	1,180	1,194			1
		Count	1 1	27	25	1,000	275			(
	transin_ca	Length (ft)	48,859	22	- [12,030	0			(
	US_cell_towers	Count	1	10	-	250	0	199,123	253,979	
astings_Tract 1	Commercial - Retail Trade	Count	1	15	100	6	7			1

	Gas_Oil_Production_Fields	Area (Acres)	46	15	0	0	0	7	6	(
Hastings_Tract 2	Commercial - Retail Trade	Count	1	15	100	182	200			18
	Delta Roads PBSJ Minor Roads	Length (ft)	33.040	15		6,608	1,817			
	Gas Oil Production Fields	Area (Acres)	465	15	0	0	0			<u> </u>
	gas oil wells	Count	38	14	0	0	0			·
	Natural Gas Wells	Count	3	16		0	0	· [
	Residential - Manuf. Housing	Count	1	15		66	68	ļ		2
	Residential - Single Family Dwelling	Count	11	15	100	3,024	3,216			2
	transin ca	Length (ft)	11,506	15		3,705	0	5,301	13,585	
Holland_Land	Delta Roads PBSJ Major Roads	Length (ft)	119	16	25	39	11			
. Tonana_mana	Delta Roads PBSJ Minor Roads	Length (ft)	228	16		46	13	ŀ		ļ
	gas oil wells	Count	2	16	0	0	0	ł		
	Hwy HAZUS SDURS	Length (ft)	9,793	16		3,232	889	ŀ		
	Petroleum Pipelines	Length (ft)	97	16		20	0	ŀ		
	Residential - Single Family Dwelling	Count	2	16	100	576	612			2
	transin ca	Length (ft)	78	16		19	0	1,525	3,932	
Holland_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	52,160	20	25	10,432	2,869	1,020	0,002	
	gas oil wells	Count	32,100	20	0	10,432	2,009			
	Hwy Bridge HAZUS SDURS	Count	1	15	25	2,000	550			
	Residential - Manuf. Housing	Count	4	20	100	192	199			2
	Residential - Single Family Dwelling	Count	12	20	100	3,164	3,364	6.982	15,788	2
Honker Bay Club	Gas Oil Production Fields	Area (Acres)	47	10	0	0,104	0,004	0,302	10,700	
Holikei_Bay_Club	Natural Gas Pipeline	Length (ft)	4,395	10	0	835				
	Petroleum Pipelines	Length (ft)	4,793	10	0	1,007	0			
	Residential - Single Family Dwelling	Count		10	49	801	474	474	2.643	2
Untablica Treat d			3			1		4/4	2,043	
Hotchkiss_Tract 1	Boatlaunch	Count	2	12 12	100 100	200	220	J		1
	Commercial - Professional/ Technical Se		2			6,068	6,007	1		
	Commercial - Retail Trade Delta Roads PBSJ Minor Roads	Count	2	12	42	1,340	899	I		1:
		Length (ft)	92,186	12	25	18,437	5,070	1		
	Gas_Oil_Production_Fields	Area (Acres)	46	12	0	0	0	i		
	gas_oil_wells	Count	26	12			0	1		
	Hwy_Bridge_HAZUS_SDURS Natural Gas Pipeline	Count	2	11	25 0	4,000	1,100			
		Length (ft)	21,406	12	·	4,067	0	1		
	Natural Gas Wells	Count	5	11	400	0				
	Residential - Duplex	Count	10	12	100	4,170	4,434			2-
	Residential - Manuf. Housing	Count	160	12	100	8,348	8,662			2
	Residential - Single Family Dwelling	Count	500	12	100	136,322	144,955			2
	Residential - Triplex-Quads	Count	4 500	12	100	1,872	1,991	470.000	400 500	2
U-4-b-b T10	transin_ca	Length (ft)	45,599	12	-	14,681	0	173,339	199,506	,
Hotchkiss_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,014	12	25	1,803	496			
	Gas_Oil_Production_Fields	Area (Acres)	1,033	12	0	0	0			
	gas_oil_wells	Count	3	12	0	0	0			
	Natural Gas Pipeline	Length (ft)	2,371	12	0	450	0	496	2,253	
Jersey_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	37,574	20	25	7,515	2,067			
	Gas_Oil_Production_Fields	Area (Acres)	632	20	0	0	0			
	gas_oil_wells	Count	15	.18	Ó	0	0			
	Natural Gas Pipeline	Length (ft)	11,881	20	0	7,426	0			
	Natural Gas Wells	Count	3	15		0	0	1		
	Residential - Manuf. Housing	Count	1	20	100	65	67	1		2
	Residential - Single Family Dwelling	Count	4	20	100	1,065	1,132	l		2
	solid_waste_facilities	Count	1	25	25	Ó	0	ľ		
	transin_ca	Length (ft)	26,540	20	-]	8,545	0	3,266	24,615	
Jones_Tract-Upper and Lower	bridges not in HAZUS	Count	2	5	25	2,000	550			

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	dCount 1	2	22	100	956	1,052			18
Commercial - Professional/ Technical Se									18
									6
									0
				_					0
									0
		27,507							3
		92 200							1
		10,033							0
		- 1							0
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Residential - Manuf. Housing							l		24
	Count	92		100		19,716			24
water_trans	Count	4	25	-	0	0	145,102	170,332	0
	Count	2	9	47	2,220	1,551			17
Commercial - Retail Trade	Count	2	9	34	2,672	1,675			12
	Count	2	12	100	236	260			18
Delta_Roads_PBSJ_Major_Roads	Length (ft)	5,110	9	25	1,686	464			6
Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,141	9	25	2,828	778			6
Gas_Oil_Production_Fields	Area (Acres)	143	9	Ö	0	0			0
gas_oil_wells	Count	7	11	0	0	0	i		0
Residential - Duplex	Count	6	9	48	2,619	1,504			23
Residential - Manuf. Housing	Count	3	9	100	182	188			24
Residential - Single Family Dwelling	Count	57	9	47	15,440	8,710	15,129	27,884	22
Boatlaunch	Count	2	9	100	200	220		······································	0
Commercial - Retail Trade	Count	2	11	38	4	3	- 1		14
Delta_Roads_PBSJ_Minor_Roads	Length (ft)	480	11	25	96	26	I		6
	Area (Acres)	43	11	0	0	0	I		0
	Count	6	11	49	1,548	915	1,164	1,848	23
	 	_					-,,,	.,- 10	
Delta Roads PBSJ Minor Roads	Length (ft)	35,790	15	25	7,158	1,968		1	6
	Residential - Manuf. Housing Residential - Single Family Dwelling US_cell_towers Delta_Roads_PBSJ_Minor_Roads gas_oil_wells Residential - Single Family Dwelling transIn_ca Boatlaunch Commercial - Entertainment and Recrea Commercial - Professional/ Technical Se Commercial - Retail Trade Delta_Roads_PBSJ_Minor_Roads Gas_Oil_Production_Fields gas_oil_wells Hwy_Bridge_HAZUS_SDURS Natural Gas Wells Residential - Duplex Residential - Institutional and Dormitory Residential - Single Family Dwelling water_trans Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Professional/ Technical Se Commercial - Pr	Delta_Roads_PBSJ_Minor_Roads	Delta Roads PBSJ Minor Roads	Delta Roads PBSJ Minor Roads Length (ft) 125,981 22 Gas Oil Production Fields Area (Acres) 106 22 23 23 23 23 23 23 2	Delta Roads PBSJ Minor Roads	Delta Roads PBSJ. Minor Roads Length (ft) 125,981 22 25 25,196 Gas Oil Production Fields Area (Acres) 32 23 0 0 gas Oil wells Count 32 23 0 0 0 gas Dipelline kinder morgan LS 9 Length (ft) 27,507 22 0 5,776 22 0 5,776 22 0 6,776 22 1 25 4,000 20 20 21 25 4,000 22 21 25 4,000 23 23 20 24,203 22 2 24,203 22 2 24,203 22 2 24,203 22 2 24,203 22 2 24,203 22 2 24,203 22 2 24,203 23 20 24,203 24,203 24,203 25 25 25 20 24,203 25 25 25 25 25 25 25 2	Delta Roads PBSJ. Minor Roads Length (ft) 125,981 22 25 25,196 6,929	Delta Roads PBSJ Minor Roads Length (ft) 125,981 22 25 25,196 6,929	Delta Roeds PBSJ Minor Roads Length (ft) 125,981 22 25 25,196 6,929 G8S OII Production Fields Area (Acres) 106 22 0 0 0 0 ogs oil wells Count 32 23 0 0 0 0 ogs oil wells Count 32 23 0 0 0 0 ogs pelpine (inder morgan LS) Length (ft) 22,7507 22 0 5,776 0 ogs pelpine (inder morgan LS) Length (ft) 82,205 22 4,000 1,100 ogs oil wells Count 2 21 25 4,000 1,100 ogs oil wells Count 1 25 - 0 0 ogs oil wells Count 1 25 - 0 0 ogs oil wells Count 1 24 - 0 0 ogs oil wells Count 1 24 - 0 ogs oil wells Count 1 24 - 0 ogs oil wells Count 1 24 - 0 ogs oil wells Count 1 24 - 0 ogs oil wells Count 2 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil wells Count 0 ogs oil

	gas oil wells	Count	24	15	0	0	0	1		
	Hwy Bridge HAZUS SDURS	Count	1	14	25	2,000	550			
	Natural Gas Pipeline	Length (ft)	28,637	15	0	5,441	0	2,518	14,599	
incoln Village Tract	Commercial - Entertainment and Recrea	,	9	7	20	10,902	5,996			
	Commercial - Professional/ Technical Se		1	7	41	7,226	4,809			
		Count	1	7	26	14,066	8,200	l		
		Length (ft)	5,052	7	25	1,667	458			
		Length (ft)	151,476	7	25	30,295	8,331			
	hc ambulatory	Count	1	10	22	0	0	1		
		Count	6	8	25	12,000	3,300	l		
		Length (ft)	5,677	7	25	1,873	515			
	Religion - Churches and other Non-Profit		1	7	14	4,296	2,245			
	Residential - Duplex	Count	68	7	43	5,310	2,699	ŀ		
	Residential - Multi-Dwellings - 10 to 19 u		2		43	3,579	1,819			
	Residential - Multi-Dwellings - 5 to 9 units		34	7	43	81,113	41,221			
	Residential - Multi-Dwellings - 50+ units		4	7	43	101,418	51,541			
	Residential - Multi-Dwellings- 10 to 19 un		2	'	43	20,871	10,607			
	Residential - Multi-Dwellings- 20 to 49 ur		1	7	43	14,930	7,587			
		Count	3,429	7	39	919,649	441,232	l		
		Count	76	7	43	32,369	16,450			
		Count	9	4	9	1,180	474			
		Count		6		1,160	4/4	607,484	1,262,743	
ahan District			1					007,404	1,202,743	
sbon_District	Airports_HAZUS_SDURS Delta Roads PBSJ Major Roads	Count	20.168	15 17	25	12,862 6.655	3,537			
		Length (ft)			25	-7	1,830			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	29,824	17	25	5,965	1,640			
	Gas_Oil_Production_Fields	Area (Acres)	795	17	0	0	0			
	0	Count	21	17				i		
	Rail HAZUS SDURS	Length (ft)	16,389	17	25	4,671	1,284			
	Residential - Duplex	Count	2	17	100	558	593	1		
	Residential - Multi-Dwellings- 10 to 19 un		59	17	100	861	916			
		Count		17	100	15,946	16,956			
	Runway_HAZUS_SDURS	Count	2	15	25	73,349	20,171			
	transin_ca	Length (ft)	16,185	17		3,985	0			
	US_cell_towers	Count	2	10	-	500	0	46,928	125,352	
ttle Holland Tract		Area (Acres)	89	13	0	0	0			
	gas_oil_wells	Count	2	13	0	0	0	0	0	
ttle_Egbert□_Tract	Commercial - Professional/ Technical Se		3	17	100	6	7			
	Commercial - Retail Trade	Count	3	17	100	6	7	l		
		Length (ft)	150	17	25	50	14			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	42,140	17	25	8,428	2,318	İ		
		Area (Acres)	1,263	17	0	0	0			
		Count	27	18	0	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	3	6	25	6,000	1,650			
	Hwy_HAZUS_SDURS	Length (ft)	5,495	17	25	1,813	499			
	Natural Gas Pipeline	Length (ft)	13,698	17	0	3,288	Ō			
	Natural Gas Wells	Count	2	7	-1	0	0			
	Residential - Duplex	Count	3	17	100	608	646			
		Count	11	17	100	472	490	J		
	Residential - Single Family Dwelling	Count	77	17	100	21,027	22,359	27,988	41,697	
ower_Roberts_Island		Length (ft)	11,403	10	25	2,281	627			
_		Count	1	5	o	` 0	0	ı	ļ	
	Residential - Manuf. Housing	Count	3	10	100	90	93	l	ļ	
		Count	3	10	49	563	333	1,053	2,933	

Mandeville_Island	Delta Roads PBSJ Minor Roads	Length (ft)	26,063	27	25	5,213	1,433	1	j	6
mandovino_isiand	gas oil wells	Count	10	29	0	0,210	1,100	1,433	5,213	0
McCormack Williamson Tract	Communication HAZUS SDURS	Count	2	12	100	236	260	1,100	0,210	18
WCCOMINGCK_WINIAMSON_MACE	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	14,823	14	25	2,965	815			6
	Gas Oil Production Fields	Area (Acres)	886	14	0	2,000	0 0	l		
	Gas Oil Production Fields	Area (Acres)	2,055	24	0	0	0			<u></u>
	gas oil wells	Count	20	14	ő	0		:		Ö
	Natural Gas Pipeline	Length (ft)	4,699	14	ő	893	0	1,075	4,093	
McDonald_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	67,361	27	25	13,472	3,705	.,,	.,	6
	gas oil wells	Count	105	24	0	0	0			0
	Natural Gas Pipeline	Length (ft)	20,905	27	Ö	6,376	0			ō
		Count	3	27	100	16,398	17,437	21,141	36,246	24
McMullin Ranch-River Junction Trace		Count	2	10	38	120	78			14
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	23,375	10	25	7,714	2,121	- 1		6
	Delta Roads PBSJ Minor Roads	Length (ft)	62,052	10	25	12,410	3,413	- 1		6
	gas oil wells	Count	2,002	10	0	12,410	0,410			
	Hwy_Bridge_HAZUS_SDURS	Count	2	10	25	4,000	1,100	- 1		3
	Natural Gas Pipeline	Length (ft)	11,554	10	0	3,004	1,100	ı		ň
	Residential - Manuf. Housing	Count	14	10	100	627	651	1		24
	Residential - Single Family Dwelling	Count	109	10	49	28,901	17,087	I		23
	transin ca	Length (ft)	23,358	10	-	5,751	0	24,450	62,527	0
Medford Island	Delta Roads PBSJ Minor Roads	Length (ft)	28,314	23	25	5,663	1,557	,	,	6
		Count	1	23	100	2,897	3,080	4,637	8,559	24
Merritt Island	Commercial - Professional/ Technical Se		2	15	100	1,552	1,707	.,,,,,	0,000	18
morriti iolalia	Commercial - Retail Trade	Count	2	15	100	340	374		İ	18
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	20,406	15	25	6,734	1,852		ł	6
	Delta Roads PBSJ Minor Roads	Length (ft)	74,962	15	25	14,992	4,123			6
	Gas Oil Production Fields	Area (Acres)	185	15	0	0	7,120		ł	Ö
	gas oil wells	Count	15	15	ő	0	Ö		ŀ	Ö
	Residential - Manuf. Housing	Count	5	15	100	336	348		ŀ	24
	Residential - Multi-Dwellings- 10 to 19 ur		2	15	100	360	383		İ	24
	Residential - Single Family Dwelling	Count	88	15	100	22,855	24,303	33,090	47,169	24
Middle Roberts Island	Boatlaunch	Count	3	22	100	300	330		.,,	0
	bridges not in HAZUS	Count	1	14	25	1,000	275			3
	Commercial - Personal and Repair Servi		1	15	100	1,226	1,349			18
	Commercial - Professional/ Technical Se		 	15	100	716	788			18
	Commercial - Retail Trade	Count	1	15	100	566	623			18
	Dams HAZUS SDURS	Count	- 1	12	0	0	0			0
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	27,590	15	25	9,105	2,504	- 1	l	6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	303,675	15	25	60,735	16,702	I	ļ	6
	Gas_Oil_Production_Fields	Area (Acres)	3,143	15	0	0	0	1		0
	gas_oil_wells	Count	104	15	0	Ó	0			0
	gas pipeline kinder morgan LS 9	Length (ft)	24,056	15	0	5,052	0	1		0
	Hwy_Bridge_HAZUS_SDURS	Count	1	10	25	2,000	550	I	l	3
	Hwy_HAZUS_SDURS	Length (ft)	44,694	15	25	14,749	4,056	1		3
	mokelumne_aqueduct_pipe	Length (ft)	66,109	15	Ö	330,545	0	ŀ	İ	0
	Natural Gas Pipeline	Length (ft)	64,386	15	0	12,233	0	1		0
	Natural Gas Wells	Count	14	8		0	0	į.	Ì	0
	Petroleum Pipelines	Length (ft)	9,151	15	0	1,922	0	i	l	0
	Rail_HAZUS_SDURS	Length (ft)	27,694	15	25	7,893	2,171	I	İ	1
	Residential - Duplex	Count	8	15	100	3,419	3,635		İ	24
		Count	6	15	47	36,474	22,441	I		23
	Residential - Manuf. Housing	Count	37	15	100	1,937	2,009	I		24

	Residential - Single Family Dwelling	Count	145	15	100	34,163	36.326	1		
	Schools HAZUS SDURS	Count	1	21	100	1,180	1,194			
	solid_waste_facilities	Count	<u> </u>	12	25	1,100	1,10-1			
	transin ca	Length (ft)	166,254	15	- 20	40.934	0	94.952	566,147	-
vetherlands 1	Delta Roads PBSJ Minor Roads	Length (ft)	430	14	25	86	24	0-1,002	000,147	
vetilerialius i	Gas Oil Production Fields	Area (Acres)	221	14	20	0		i		
	gas oil wells	Count	10	15	0	- ő l	0	1		
	Hwy HAZUS SDURS	Length (ft)	9,494	14	25	3,133	862	1		
	Residential - Multi-Dwellings- 10 to 19 u		3,434	14	100	21	22	1		
	Residential - North-Dwellings- 10 to 19 to	Count	2	14	100	701	745	1,652	3.941	
letherlende 2		Count	1	16	100	0	0	1,002	0,0-71	-
letherlands 2	air_trans Commercial - Professional/ Technical S		1	17	100	312	343	i		
	Commercial - Retail Trade	Count	1	17	100	2,510	2,761	1		
	Delta Roads PBSJ Major Roads		25,540	17	25	8,428	2,701	ı		
	Delta Roads PBSJ Minor Roads	Length (ft)	326,220	17	25	65,244	17,942	i		
	Fire Stations SDURS			13	40	3,540	2,586	ŀ		
	Gas Oil Production Fields	Count Area (Acres)	885	17	0	3,340	2,300	I		
			79	17	0	0		l		<u> </u>
	gas_oil_wells Hazmat HAZUS SDURS	Count	1	18		0	0			
	hc ambulatory	Count	1	21	100	0	0	İ		
		Count	1	3	25	2,000	550	1		
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS	Length (ft)	70.322		25	23,206	6,382	1		
	Natural Gas Wells	Count	10,322	17		23,206	0,302	1		
	rail 1000 nodes	Count	4	18		0	- 0	1		
	Rail HAZUS SDURS		7,594	17	25	2,164	595	1		
		Length (ft)	7,594	17	100	6,960	7,401			
	4		8	17	100	497	515	i		
	Residential - Manuf. Housing Residential - Multi-Dwellings- 10 to 19 u	Count	1	17	100	1,661	1,766			
	Residential - Single Family Dwelling	Count	294	17 17	100	77,970	82,908			
	Schools HAZUS SDURS	Count	294	7	13	2,360	1,220			
	solid waste facilities	Count	2	18	25	2,300	1,220	127.286	196.852	
New Hope Tract	Agriculture	Count	2	11	100	7,212	6,823	127,200	190,002	
New_nope_rract	Boatlaunch	Count	4	14	100	400	440			
	Commercial - Professional/ Technical S		2	11	100	1,280	1,267			
	Commercial - Retail Trade	Count	2	11	42	4,192	2,813			
	Delta Roads PBSJ Major Roads	Length (ft)	30,583	11	25	10,092	2,775	l		
	Delta Roads PBSJ Minor Roads	Length (ft)	129,887	11	25	25,977	7,144			
	Gas Oil Production Fields	Area (Acres)	1,893	11	0	25,977	7,144	l		
	gas oil wells	Count	1,093	12	- 6	0	- 0			
	Hwy Bridge HAZUS SDURS	Count	6	9	25	12,000	3,300	l		
	Hwy HAZUS SDURS	Length (ft)	20,018	11	25	6,606	1,817			
	Natural Gas Pipeline	Length (ft)	44.656	11	23	8,485	1,017			
	Natural Gas Pipeline Natural Gas Wells	Count	3	14		0,400		l		
	Rail HAZUS SDURS	Length (ft)	5,104	11	25	1,455	400			
	Residential - Duplex	Count	5,104	11	100	1,455	1,818			
	Residential - Manuf. Housing	Count	185	11	100	9,565	9,926			
	Residential - Manuf. Housing Residential - Single Family Dwelling	Count	253	11	100	51,839	55,122			
	solid waste facilities	Count	203	5	25	51,039	00,122	İ	:	
	US cell towers	Count	6	8		1,500	0			
			2	10		1,500	0	93,645	142,314	
Drugged Trees	water_trans	Count			- 400			93,045	142,314	
Drwood_Tract	Commercial - Professional/ Technical S		1]	20	100	768	845			
	Commercial - Retail Trade	Count		20	100	54	59	l		
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,805	20	25	4,961	1,364	- 1		

							-		г	
	gas_oil_wells	Count	3	22	0					
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	14,841	20	0		0		<u> </u>	
	mokelumne_aqueduct_pipe	Length (ft)	40,546	20		202,730	16,948			
	Natural Gas Pipeline	Length (ft)	6,497	20	0	1,819	0		L	
	Residential - Manuf. Housing	Count	1	20	100	47	48	1	Į.	
	Residential - Single Family Dwelling	Count	89	20	100	33,962	36,112	ı	L	
	transln_ca	Length (ft)	11,545	20	-	3,717	0	55,377	251,174	
Palm_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,443	22	25	4,889	1,344			
	Gas_Oil_Production_Fields	Area (Acres)	101	22	0	0	0	- 1		
	gas_oil_wells	Count	3	23	0	0	0	1		
	Natural Gas Pipeline	Length (ft)	27,094	22	0	7,586	0	1	Ī	
	Rail_HAZUS_SDURS	Length (ft)	12,628	22	25	3,599	990		ſ	
	Residential - Manuf. Housing	Count	2	22	100	102	106		Ī	
	Residential - Single Family Dwelling	Count	13	22	100	4,263	4,533		Ī	
	transin ca	Length (ft)	6,596	22	-	2,124	0	6,973	22,563	
Paradise Junction	Delta Roads PBSJ Major Roads	Length (ft)	2,949	10	25	973	268			
	Delta Roads PBSJ Minor Roads	Length (ft)	35,491	10	25	7,098	1,952	-	ŀ	
	gas oil wells	Count	7	11	0	0			}	
	Hwy Bridge HAZUS SDURS	Count	4	11	25	8,000	2,200		ŀ	
	Hwy_HAZUS_SDURS	Length (ft)	1,557	10	25	514	141		 	
	Natural Gas Wells	Count	1,007	13		0	171		1	
	Prison	Count	2	6	17	50,000			ŀ	
	Rail HAZUS SDURS	Length (ft)	9,340	10	25	2,662	732		ŀ	
	Residential - Institutional and Dormitory		9,340	10	25 26	85,109	36,200		}	
							36,200		-	
	Residential - Manuf. Housing	Count	2	10	100	138				
	Residential - Multi-Dwellings- 10 to 19 ur		2	10	50	30			1	
	Residential - Single Family Dwelling	Count	28	10	49	5,875			1	
	substation_ca	Count	2	9	25	2,000	550			
	transln_ca	Length (ft)	32,461	10	-	7,992	0	55,027	170,391	
Pescadero	bridges_not_in_HAZUS	Count	2	10	25	2,000	550		1	
	Commercial - Professional/ Technical Se		2	10	50	4,980	3,561		L	
	Commercial - Retail Trade	Count	2	10	38	4,312	2,798		Ĺ	
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	9,166	10	25	3,025	832		L	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	172,317	10	25	34,463	9,477		[
	Gas_Oil_Production_Fields	Area (Acres)	22	10	O,	0	0		Γ	
	gas_oil_wells	Count	13	8	0	0	0	l	Ī	
	Hazmat_HAZUS_SDURS	Count	9	5	-	0	0	l	Ī	
	Hwy_Bridge_HAZUS_SDURS	Count	17	10	25	34,000	9,350	l	Ì	
	Hwy_HAZUS_SDURS	Length (ft)	29,651	10	25	9,785	2,691	l	ŀ	
	Natural Gas Pipeline	Length (ft)	5,131	10	0	975		I	ŀ	
	Petroleum Pipelines	Length (ft)	6,138	10	Ö		0		ŀ	
	Rail HAZUS SDURS	Length (ft)	257	10	25	73	20	I	ŀ	
	Residential - Manuf. Housing	Count	48	10	100	2,479	2.573	I	ŀ	
	Residential - Multi-Dwellings- 10 to 19 ur		2	10	50	1,227	733	1	ŀ	
	Residential - Single Family Dwelling	Count	213	10	49	55.962	33.088	1	F	
	sewage treat	Count	213	9	30	200,000	66,000	I	}	
	transin ca	Length (ft)	22,905	10	30	5,639	00,000	1	}	
	US cell towers	Count	22,905	101		500	 	l	}	
	utilities	Count	1	18	-			194 670	360 740	
Peter Pocket			-			0		131,673	360,710	
reter rocket	Gas_Oil_Production_Fields	Area (Acres)	601	11	0	0			1	
	gas_oil_wells	Count	9	11	0	0			L	
	Natural Gas Pipeline	Length (ft)	5,700	11	0	1,083	0		L	
	Natural Gas Wells	Count	ા રા	121		0	l ol			

	Residential - Manuf. Housing	Count	1	11	100	24	25	- 1		
	Residential - Single Family Dwelling	Count	3	11	49	753	445			
	transin ca	Length (ft)	865	11	<u></u>	279	0	470	2,139	
Pico Naglee Tract	Commercial - Entertainment and Recrea		11	11		23,111	13,855	7,0	2,100	
loo_naglee_mact	Commercial - Personal and Repair Serv		14	11		26,667	16,867			
	Commercial - Professional and Technica		4	11		68,336	48,860			
	Commercial - Retail Trade	Count	4	11	38	99,592	64,635			
	Commercial - Wholesale Trade	Count	11	11		53,691	33,074			
	Delta Roads PBSJ Major Roads	Length (ft)	40,058	11	25	13,219	3,635	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	194,516	11	25	38,903	10,698	I		
	gas oil wells	Count	194,510	10		30,903	10,098	1		ļ
	Hazmat HAZUS SDURS	Count	2	14		- 0		1		<u> </u>
	hc ambulatory	Count	2	10			-	I		
	hc nursing res	Count	2	9		0				
	Hwy Bridge HAZUS SDURS	Count	6	5		12,000	3,300			
	Hwy HAZUS SDURS	Length (ft)	3,465	11		1,143	3,300			
	Industrial - Construction	Count	3,403	11		17,804	16.059			
										
	Industrial - Heavy Industrial - Light	Count	9	11 11		57,105 9,495	34,674 5,640			
			2							
	Industrial - Metals, Minerals Processing	Count		11		27,315	16,946			
	Natural Gas Pipeline	Length (ft)	42,029	11		7,986	0			
	Police Stations HAZUS SDURS	Count	2	10		8,260	5,706			
	rail_1000_nodes	Count	2			0	0			
	Rail_HAZUS_SDURS	Length (ft)	2,787	11		794	218			
	Religion - Churches and other Non-Profi		2	11	17	6,156	3,420	1		
	Residential - Duplex	Count	4	11		2,469	1,476			
	Residential - Manuf. Housing	Count	28	11		1,551	1,610	1		
	Residential - Multi-Dwellings- 10 to 19 ur		2	11		102	61			
	Residential - Multi-Dwellings- 20 to 49 ur		2	11		93	56			
	Residential - Single Family Dwelling	Count	600	11		186,839	110,469	i		
	substation_ca	Count	2	8		2,000	550			
	transin_ca	Length (ft)	67,480	11		16,614	0			
	US_cell_towers	Count	2	10		500	0			
	utilities	Count	1	. 12		0	0	392,123	681,746	
ierson_Tract	Commercial - Personal and Repair Servi		3	19		4,980	5,478			
	Commercial - Professional/ Technical Se		2	19		4,596	5,056			
	Commercial - Retail Trade	Count	2	19		1,996	2,196			
	Communication_HAZUS_SDURS	Count	4	17		472	519			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	14,425	19	25	4,760	1,309			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	147,558	19		29,512	8,116			
	Fire_Stations_SDURS	Count	2	9	23	3,540	2,321			
	Gas_Oil_Production_Fields	Area (Acres)	322	19	Ó	0	0	i		
	gas_oil_wells	Count	18	19	0	0	0			
	hc_ambulatory	Count	2	6	16	0	0	1		
	Hwy_Bridge_HAZUS_SDURS	Count	3	15	25	6,000	1,650	1		
	Hwy_HAZUS_SDURS	Length (ft)	17,086	19		5,638	1,551	l		
	Residential - Duplex	Count	3	19		2,286	2,431			
	Residential - Manuf. Housing	Count	26	19		1,287	1,335	l		
	Residential - Single Family Dwelling	Count	217	19		44,801	47,639	l		
	Residential - Triplex-Quads	Count	2	19		1,248	1,327	I		
	Schools HAZUS SDURS	Count	3	13		3,540	2,278	l		
	transin ca	Length (ft)	18,825	19		4,635	2,2,0	83,204	119,291	
ittsburg	Commercial - Personal and Repair Servi		2	10	22	4,456	2,500	30,204	110,201	

[Commercial - Professional/ Technical S	el Count	2	7]	38	2,088	1,355		Ī	. 14
	Commercial - Retail Trade	Count	2	7	23	2,500	1,416		•	8
	Delta Roads PBSJ Major Roads	Length (ft)	6,213		25	2,050	564		j	6
	Delta Roads PBSJ Minor Roads	Length (ft)	7,797	 	25	1,559	429			6
	Industrial - Construction	Count	2	7	50	6,796	3,999			18
	Natural Gas Pipeline	Length (ft)	10,044		- 30	1,908	0,999			
	Petroleum Pipelines	Length (ft)	5,423	7		1,139				0
	Port HAZUS SDURS	Count	2	11	- 8	5,145			1	0
	rail 1000 nodes	Count	8	5	- 4	0,140			ŀ	0
			2	4	- 05	2.000	550		ŀ	1
	Rail_Bridge_HAZUS_SDURS	Count		4	25	_,				
	Rail_HAZUS_SDURS	Length (ft)	14,711	- /	25	4,193	1,153			1
	Residential - Duplex	Count	8	7	39	4,101	1,877			18
	Residential - Manuf. Housing	Count	2	7	. 100	111	114			24
	Residential - Multi-Dwellings- 10 to 19 u		2	7	39	3,306	1,513			18
	Residential - Multi-Dwellings- 20 to 49 u		2	7	39	1,461	669			18
	Residential - Single Family Dwelling	Count	186	7	37	53,067	23,700		ļ	18
	Residential - Triplex-Quads	Count	8	7	39	2,913	1,333			18
	substation_ca	Count	1	6	25	1,000	275			
	transin_ca	Length (ft)	37,607	7	-	9,259	0	:		C
	utilities	Count	1	3	-	0	0	41,445	109,053	O
Prospect_island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,398	16	25	1,080	297			6
. –	Gas Oil Production Fields	Area (Acres)	302	16	0	0	0			0
	gas oil wells	Count	11	14	0	0	0			0
	Residential - Multi-Dwellings- 10 to 19 u	r Count	1	16	100	2	2		İ	24
	Residential - Single Family Dwelling	Count	2	16	100	707	751	1,050	1,788	24
Quimby_Island	bridges not in HAZUS	Count	1	20	25	1,000	275			3
	gas oil wells	Count	1	22	ol	0	0			0
•	Residential - Single Family Dwelling	Count	1	23	100	126	134	409	1,126	24
RD 17 (Mossdale)	Boatlaunch	Count	4	3	100	400	440		.,	0
	bridges_not_in_HAZUS	Count	4	7	25	4,000	1,100		Ī	3
	Commercial - Banks	Count	2	6	17	1,696	895		1	6
	Commercial - Entertainment and Recrea	Count	3	6	18	4,959	2,646			- 6
	Commercial - Personal and Repair Serv		2	6	22	4,144	2,302		l	8
	Commercial - Professional/ Technical S		2	6	38	19,436	12,507		Ì	14
	Commercial - Retail Trade	Count	2	6	23	14,032	7,872		Ì	8
	Commercial - Wholesale Trade	Count	4	6	19	17,499	9,432	l		7
	Delta Roads PBSJ Major Roads	Length (ft)	39,253	6	25	12,953	3,562	i	ł	· · · · · · · · · · · · · · · · · · ·
	Delta Roads PBSJ Minor Roads	Length (ft)	342,968	6	25	68,594	18,863		ł	······································
	Gas Oil Production Fields	Area (Acres)	313	6	- 20	00,004	10,000		ł	
	gas oil wells	Count	17	4	- 6	<u>o</u> l			ł	
	Hazmat HAZUS SDURS	Count	5	3	-	0	- 	l	ŀ	
	hc ambulatory	Count	3	2	12	-			ł	
	Hwy Bridge HAZUS SDURS	Count	17	6	25	34,000	9,350	l	ŀ	
	Hwy HAZUS SDURS		30,637	6	25	10,110		l	ŀ	3
	Industrial - Heavy	Length (ft)	50,637	6	26	30,484	2,780	l	}	9
			1			30,484	14,754		}	9
	Natural Gas Wells	Count		4	- 400		5.050	l	ļ	- 0
	Rail Facility HAZUS SDRUS	Count	2	10	100	5,145	5,659	l	}	
	Rail_HAZUS_SDURS	Length (ft)	8,867	6	25	2,527	695		ļ	1
	Residential - Duplex	Count	2	6	39	1,851	847		ļ	18
	Residential - Manuf. Housing	Count	247	6	100	12,969	13,220	l	ļ	24
	Residential - Multi-Dwellings- 10 to 19 u		2	6	39	111	51	l	Į.	18
										10
	Residential - Multi-Dwellings- 20 to 49 u Residential - Single Family Dwelling	Count	2.863	6	39 37	585 846,664	268 378,120	· · ·	Į.	18 18

	Decidental Tripley Oyada	Count	2	6	39	3,579	1,638		ŗ	18
•	Residential - Triplex-Quads			- 1	5	2,360	519		}	10
	Schools_HAZUS_SDURS	Count	2						}	
	substation_ca	Count	20 500	9	25	1,000	275			0
	transln_ca	Length (ft)	92,592	6		22,797	0		1	0
	US_cell_towers	Count	2	10		500	0	407 700	4 400 000	1
	utilities	Count	1	2	-	0	0	487,796	1,122,396	0
Rindge_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	334,872	25	25	66,974	18,418		1	6
	gas_oil_wells	Count	14	25	0	0	0		1	0
	Natural Gas Wells	Count	4	22		0	0	1	1	0
	Residential - Duplex	Count	4	25	100	1,146	1,219	I		24
	Residential - Manuf. Housing	Count	8	25	100	528	548		1	24
	Residential - Single Family Dwelling	Count	16	25	100	3,384	3,598	I		24
	US_cell_towers	Count	4	18	-	1,000	0	23,783	73,032	1
Rio Blanco Tract	Delta Roads PBSJ Minor Roads	Length (ft)	2,927	9	25	585	161			6
	gas oil wells	Count	2	11	0	0	0			0
	Hwy_Bridge_HAZUS_SDURS	Count	1	16	25	2,000	550			3
	Hwy_HAZUS_SDURS	Length (ft)	5,521	9	25	1,822	501		Ī	3
	transin ca	Length (ft)	22,668	9	-1	5,581	0	1,212	9,988	Ó
Roberts Island	Boatlaunch	Count	3	1	100	300	330	330	300	0
Rough and Ready Island	air trans	Count	1	6		0	0			0
Rough_and_Ready_Island	Commercial - Entertainment and Recrea		1	9	22	1,376	772	l	ŀ	8
:	Commercial - Personal and Repair Servi		1	9	28	2,564	1,523	I	ŀ	10
	Commercial - Professional/ Technical Se		.1	9	44	510	348	l	•	16
	Commercial - Retail Trade	Count	1	9	30	1,558	943	1	ŀ	11
	Commercial - Retail Trade Commercial - Wholesale Trade	Count	3	9	25	12,596	7,274		}	9
				9			768	ŀ	}	9
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	8,461	9	25 25	2,792 16,196	4,454		}	0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	80,981		25	10,190	4,454		}	
	gas_oil_wells	Count	1	10		<u> </u>	00.440	İ	-	
	Government - General Services	Count	13	9	23	39,875	26,142	į.	1	<u>°</u>
	Hazmat_HAZUS_SDURS	Count	3	4		0	0 110	1		- 0
*	Industrial - Heavy	Count	1 1	9	35	4,280	2,410	I	-	13
	Petroleum Pipelines	Length (ft)	12,716	9	Ö	2,670	0	l	1	0
	rail_1000_nodes	Count	5	10		0	0	1		0
	Rail_HAZUS_SDURS	Length (ft)	29,506	9	25	8,409	2,313	ı	j.	1
	Residential - Duplex	Count	3	9	46	1,026	556	ı		22
	Residential - Manuf. Housing	Count	9	9	100	474	490	1	Į.	24
	Residential - Single Family Dwelling	Count	15	9	44	3,027	1,599			21
	tankfarms	Count	2	3	-	6,000	0	49,591	103,354	0
Ryer Island	Delta_Roads_PBSJ_Major_Roads	Length (ft)	1,851	21	25	611	168			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	116,940	21	25	23,388	6,432			6
	Gas_Oil_Production_Fields	Area (Acres)	412	21	0	0	0	I		0
	gas_oil_wells	Count	22	20	0	0	0	1	[0
	Hwy_Bridge_HAZUS_SDURS	Count	1	14	25	2,000	550	l	Ī	3
	Hwy HAZUS SDURS	Length (ft)	56,502	21	25	18,646	5,128	1	ļ	3
	Natural Gas Wells	Count	3	21	- 1	0	0	į	ļ	0
•	Residential - Manuf. Housing	Count	7	21	100	360	374			24
	Residential - Single Family Dwelling	Count	61	21	100	16,490	17,534	30,185	61,494	24
Sacramento Pocket Area	air trans	Count	11	7		0	0		,,	0
	Airport Points	Count	2	5	25	ő	ŏ	l	ŀ	n
	Boatlaunch	Count	3	17	100	300	330	ı	†	<u> </u>
	bridges not in HAZUS	Count	185		25	185,000	50,875	l	ŀ	2
	Colleges and Universities	Count	185	10	17	46.370	29,176	1	ŀ	<u>s</u>
			108	10	24		97,222		ŀ	
	Commercial - Banks	Count	108	10]	24	169,968	91,222	1	Į	9

Commercial - Entertainment and Recrea		229	10			245,932			
	Count	4	10	47	140,178	103,002			
	Count	201	10	22	612,815	382,887			
Commercial - Personal and Repair Servi		152		32	369,818	227,808			
Commercial - Professional and Technica		45		47	1,400,064				
Commercial - Retail Trade	Count	10			719,294	450,997			
Commercial - Theaters	Count	1	10	12	4,348	2,200			
Commercial - Wholesale Trade	Count	42	10	29	259,336	155,472			
Delta_Roads_PBSJ_Major_Roads	Length (ft)	686,062	10	25	226,400	62,260			
Delta Roads PBSJ Minor Roads	Length (ft)	3,118,577	10	25	623,715	171,522		•	
freeport pipe route preferred	Length (ft)	27,576	10	-	0	0			
gas oil wells	Count	15	13	0	0	0			
	Count	198	10	27	602,878	405,857			
	Count	765	7	18	0				
	Count	23	10	50	0				
	Count	66	8	18	0				
	Count	14		25	28,000	_			
	Length (ft)	130,657	10	25	43,117	11,857			\vdash
	Count	130,037	10	100	82,480	73,490			
	Count	13	10	39	103,903	60,347			
	Count	22	10	37	168,923	96,624			
	Count	42	5	-	100,923	90,024			
		04 043	10	- 0		0			
	Length (ft)	81,043		0		0			
l	Length (ft)	46,294	10	Ų	9,722	_			
	Count	41	8		0	0			
	Length (ft)	2,253	10	25	642	177			
Religion - Churches and other Non-Profit		64		15	389,094	211,862			
	Count	1,682	10	48	685,349	393,527			ļ
Residential - Institutional and Dormitory I		113		23	788,715	308,282			
	Count	1,233	10	100		67,299		ł	
Residential - Multi-Dwellings - 10 to 19 u		265	10	48	5,037	2,892			
Residential - Multi-Dwellings - 20 to 49 u		18		48	17,250	9,905			
Residential - Multi-Dwellings - 5 to 9 unit		558	10	48	1,292,510			1	
Residential - Multi-Dwellings - 50+ units	Count	42	10	48	1,076,663	618,220			
Residential - Multi-Dwellings- 10 to 19 un	Count	265	10	48	932,772	535,598		l	
Residential - Nursing Home	Count	7	10	23	32,364	12,650			
Residential - Single Family Dwelling	Count	60,852	10	47	15,690,770	8,851,425			
Residential - Triplex-Quads	Count	1,595	10	48	710,390	407,906			
Schools_HAZUS_SDURS	Count	18	13	28	21,240	13,084			
sewage treat	Count	6	12	30	860,000	283,800			
solid waste facilities	Count	38	11	25	0	0			
substation ca	Count	8	8	25	8,000	2,200			
	Count	1	13	_	0	0			-
	Count	3		-	9,000				<u> </u>
	Léngth (ft)	179,140		_	44,106	ō			
	Count	1	10	-	250	ő			
	Count	8			200		16,074,486	28,874,041	
				16			10,014,400	20,074,041	
	Count		. 3	16	4			l	
Commercial - Professional/ Technical Se		2		4.4	40			i .	
Commercial - Professional/ Technical Se Commercial - Retail Trade	Count	2	3	14	40	15			
Commercial - Professional/ Technical Se Commercial - Retail Trade Delta_Roads_PBSJ_Minor_Roads	Count Length (ft)	2 16,004	3	25	3,201	880			
Commercial - Professional/ Technical Se Commercial - Retail Trade Delta Roads PBSJ Minor_Roads gas_pipeline_kinder_morgan_LS_9	Count	2	3 3 3		3,201				

Sargent_Barnhart_Tract 1

1	Residential - Multi-Dwellings- 10 to 19 ur	Count	2	3	23	1,179	300	ı	i i	11
	Residential - Multi-Dwellings- 20 to 49 ur		2	3		4,419	1,124	1	i t	11
	Residential - Single Family Dwelling	Count	261	3		65,046	15,717	1	<i>i</i> 1	10
	Residential - Triplex-Quads	Count	10	3		4,815	1,225		<i>i</i> }	11
	Schools HAZUS SDURS	Count	1 2	4		7,080	1,830	24,900	100,740	
Second Boundary Trees 2		Count	1	12		7,080	0	24,900	100,740	
Sargent_Barnhart_Tract 2	air_trans Commercial - Banks	Count	8	9		12,312	7,042		į l	
			17	9		32.894	19,177	I	i	
	Commercial - Entertainment and Recrea							I	<i>i</i> }	
	Commercial - Medical Clinics	Count	17	9		44,845	28,019	I	1	1
	Commercial - Personal and Repair Servi		7	9		13,566	8,357	1	1 1	
	Commercial - Professional and Technica		6	9		133,348	93,144	1	<i>i</i> 1	1
	Commercial - Retail Trade	Count	1 1 221	9	7.1	20,294	12,724	I	<i>i</i>	1
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,901	9		1,617	445	I	i	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	245,715	9		49,143	13,514		i	
		Length (ft)	14,483	9		3,041	0	1	i !	
	hc_ambulatory	Count	98	7		0	0	1	i .	
	hc_hospital	Count	2	14		0	0		i	1
	hc_nursing_res	Count	4	8		0	0	j	i	1
	Hwy_Bridge_HAZUS_SDURS	Count	10	7		20,000	5,500	Į.		ļ
	Hwy_HAZUS_SDURS	Length (ft)	7,130	9	25	2,353	647		1	
	mokelumne_aqueduct_pipe	Length (ft)	43,148	9		215,740	0	1	<i>i</i>	
	Religion - Churches and other Non-Profit	Count	1	9	15	8,740	4,759	1	i - [
	Residential - Duplex	Count	79	9	48	25,824	14,828		<i>i</i> [2
	Residential - Institutional and Dormitory I	Count	1	9	23	6,704	2,620	i i	i [1
	Residential - Manuf. Housing	Count	23	9	100	1,515	1,567		1 1	2
	Residential - Multi-Dwellings - 10 to 19 u	Count	1	9	48	830	476		1 1	2
	Residential - Multi-Dwellings - 5 to 9 units	Count	29	9	48	68,052	39,075	1	<i>i</i> [2
	Residential - Multi-Dwellings - 50+ units	Count	3	9	48	84,645	48,603		i i	2
	Residential - Multi-Dwellings- 10 to 19 ur		1	9	48	11,322	6,501		<i>i</i> 1	2
	Residential - Multi-Dwellings- 20 to 49 ur		1	9	48	7,296	4,189	ı	i i	2
	Residential - Single Family Dwelling	Count	3,660	9	47	1,162,187	655,609	1	i l	2
	Residential - Triplex-Quads	Count	84	9		36,522	20,971		i t	2
	Schools HAZUS SDURS	Count	6	8	13	7.080	3,699		i l	
	substation ca	Count	1 1	13		1,000	275		i !	
	transin ca	Length (ft)	10,184	9		2,507	0	991,743	1,973,377	
Sargent_Barnhart_Tract 3	Boatlaunch	Count	2	10		200	220		1,510,011	
ourgent_barmart_mact o	Commercial - Entertainment and Recrea		8	11		2,515	1,508	ı	1 }	1
	Commercial - Personal and Repair Servi		1 2	11		18,432	11,658	I	i t	1
	Commercial - Professional/ Technical Se		2	11		9,740	6,964		1 1	1
	Commercial - Retail Trade	Count	2	11		600	389	1	1 1	1
	Delta Roads PBSJ Minor Roads	Length (ft)	2,402	11		480	132		i	<u>'</u>
		1							i	
	Residential - Multi-Dwellings - 5 to 9 units Residential - Multi-Dwellings- 10 to 19 units		2 2	<u>11</u> 11		1,659 189	992		1	2
									1	
	Residential - Multi-Dwellings- 20 to 49 un		2	11		273	163	ļ	<i>i</i> 1	2
	Residential - Single Family Dwelling	Count	44	11		13,578	8,028	00.400	40.000	2
Out of a Distant Town	Residential - Triplex-Quads	Count	1 2	11		534	319	30,486	48,200	2
Schafter-Pintail Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	26,277	11		5,255	1,445	ľ	1	
	gas_cil_wells	Count	1	11		0	0			
	Residential - Single Family Dwelling	Count	5	11		1,553	918	2,363	6,808	2
Sherman_Island	Boatlaunch	Count	5	10		500	550			
	Commercial - Professional/ Technical Se	Count	2	21		552	607	ļ.	<i>i</i> [1
	Commercial - Retail Trade	Count	2	21	100	1,920	2,112	1	1	1

1	Dolto Boods BBS I Minor Boods	Length (ft)	119,684	21	25	23,937	6,583	i	I	6
	Delta_Roads_PBSJ_Minor_Roads Gas Oil Production Fields		1,086	21	0	23,937	0,565			
		Area (Acres)	60				0			
	gas_oil_wells	Count	38,217		25	12,612	3,468			<u></u>
	Hwy_HAZUS_SDURS	Length (ft)	145,514	21 21	25 0	48,020	3,460			0
	Natural Gas Pipeline	Length (ft)				40,020	- 			- 0
	Natural Gas Wells	Count	4		100	1,290	1,372			24
	Residential - Duplex	Count	63	21	100	3,240				24
	Residential - Manuf. Housing	Count			100		3,362 239			24
	Residential - Multi-Dwellings- 10 to 19 ur		2	21	,	225				24
	Residential - Single Family Dwelling	Count	54		100	11,228	11,939			24
	Residential - Triplex-Quads	Count	2 74 004	21	100	969	1,030	24 400	407.054	0
	transin_ca	Length (ft)	71,301	21	-	22,957	4 400	31,400	127,951	
Shima_Tract	Commercial - Entertainment and Recrea		6		29	2,436	1,460			10
	Commercial - Medical Clinics	Count	2	10	24	4,830	3,060			9
	Commercial - Personal and Repair Servi		4	10	35	7,232	4,574			13
	Commercial - Professional and Technica		. 2	10	50	40,308	28,820			18
	Commercial - Retail Trade	Count	2	10	38	18,424	11,957			14
	Delta Roads PBSJ Major Roads	Length (ft)	4,694	10	25	1,549	426			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	144,846	10	25	28,969	7,967			6
	gas_oil_wells	Count	1	6	0	0	<u> </u>			0
	hc_ambulatory	Count	11	7	18	0	0			6
	hc_hospital	Count	2	7	35	0	0			13
	hc_nursing_res	Count	3	. 6	15	0	0			7
	Hwy_Bridge_HAZUS_SDURS	Count	2			4,000	1,100			3
	Hwy_HAZUS_SDURS	Length (ft)	7,178	10	25	2,369	651			3
	Residential - Duplex	Count	66	10	50	26,351	15,749			24
	Residential - Institutional and Dormitory I	 	2		26	10,944	4,655			12
	Residential - Multi-Dwellings - 10 to 19 u		5		50	9,437	5,640			24
	Residential - Multi-Dwellings - 5 to 9 unit		36	10	50	76,537	45,744			24
	Residential - Multi-Dwellings - 50+ units		[*] 5		50	77,123	46,094			24
	Residential - Multi-Dwellings- 10 to 19 ur		5		50	16,313	9,749			24
	Residential - Multi-Dwellings- 20 to 49 ur		2		50	7,845	4,689			24
•	Residential - Single Family Dwelling	Count	2,817	10	49	709,620	419,563			23
	Residential - Triplex-Quads	Count	87	10	50	37,861	22,628			24
	Schools_HAZUS_SDURS	Count	2	4	9	21,240	8,528	040.055	4 440 507	3
Older Kenn Treed	transin_ca	Length (ft)	28,920	10	-	7,120	0	643,055	1,110,507	0
Shin_Kee_Tract	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	8,821	10	25	1,764	485			6
	gas_oil_wells	Count	4			0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	8,005	10	25	2,642	726	4 6 4 6	40.00	3
0	transln_ca	Length (ft)	32,163	10		7,919	0	1,212	12,325	0
Simmons-Wheeler_Island	Residential - Single Family Dwelling	Count	3	10	47	756	426	426	756	22
SM-123	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,064	8	25	1,341	369			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	44,712	8	25	8,942	2,459			6
	gas_oil_wells	Count	4	7	0	0	0			0
	Hwy_Bridge_HAZUS_SDURS	Count	9	5	25	18,000	4,950			3
	Hwy_HAZUS_SDURS	Length (ft)	2,607	8		860	237			3
	intermodal_terminal_facilities	Count	3	4		0	0			0
	Natural Gas Pipeline	Length (ft)	2,480	8	0	471	Ö			0
	Petroleum Pipelines	Length (ft)	3,046	8		640	0			0
	rail_1000_nodes	Count	3	4	-	. 0	0			0
	Rail_HAZUS_SDURS	Length (ft)	3,085	8	25	879	242			1
	Residential - Multi-Dwellings- 20 to 49 ur		3	8		734	384	İ		21
	Residential - Single Family Dwelling	Count	28	8	39	5,198	2,574	i		19

	Residential - Triplex-Quads	Count	3	8	43	1,022	535	I	[2
	transin ca	Length (ft)	5,315	8		1,309	0	11,749	39,396	
SM-124	Commercial - Entertainment and Recrei	U 1/	6	8	22	3,606	2.023			
OW-12-7	Commercial - Personal and Repair Sen		5	8	28	1,360	808			1
	Commercial - Professional and Technic		2	8	44	61,764	42,123			1
	Commercial - Retail Trade	Count	2	8	30	26,752	16,185	- 1		'
	Commercial - Wholesale Trade	Count		8	25	6,868	3,966	1	ļ	·····
	Delta Roads PBSJ Major Roads	Length (ft)	8,486	8	25	2.800	770	l l	ŀ	
	Delta Roads PBSJ Minor Roads	Length (ft)	70.817	8	25	14.163	3,895	l	ŀ	
	gas oil wells	Count	1	- 7	0	14,100	0,000		t	
	Government - General Services	Count	3	8	23	9,506	6,170	1	ļ	
	hc ambulatory	Count	6	5	16	0	0,170		ŀ	
	hc nursing res	Count	2	7	18	0		1	ł	
	Hwy Bridge HAZUS SDURS	Count	2	6	25	4,000	1,100	1	ŀ	
	Hwy HAZUS SDURS	Length (ft)	4,224	8	25	1,394	383	I	ŀ	
	Natural Gas Pipeline	Length (ft)	4,078	8		775	0	1	ŀ	
	Petroleum Pipelines	Length (ft)	38,776	8	-	8,143	0	ļ	ŀ	
	Police Stations HAZUS SDURS	Count	2	6	15	8,260	4,688	ļ	ŀ	
	rail 1000 nodes	Count	6	5	-	0,260	4,000	İ	ŀ	
	Rail Facility HAZUS SDRUS	Count	2	4	25	5.145	1,415		}	
	Rail HAZUS SDURS	Length (ft)	29,823	8	25	8,500	2,337	}	ł	
	Residential - Duplex	Count	30	8	46	13,277	7,195	1	ŀ	2
	Residential - Manuf. Housing	Count	77	8	100	4,013	4,134	1	}	2
	Residential - Multi-Dwellings - 10 to 19 to		2	8	46	6,786	3,678		ŀ	2
	Residential - Multi-Dwellings - 5 to 9 uni	t Count	2	8	46	15.099	8,183	ł	ŀ	2
	Residential - Multi-Dwellings - 3 to 9 dri	d Count	2	8	46	6,588	3,570		}	2
	Residential - Multi-Dwellings- 10 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to 19 to		2	8	46	20,292	10,997		ŀ	2
	Residential - Single Family Dwelling	Count	765	8	44	198,254	104,715		ŀ	2
	Residential - Triplex-Quads	Count	53	8	46	23,098	12,518		ŀ	2
	Schools HAZUS SDURS	Count	5	6	11	1,967	963		}	
	sewage treat	Count	3		30	262,500	86,625		ŀ	1.
	substation ca	Count	1		25	1,000	275		}	!
	transin ca	Length (ft)	13,590	8	- 20	3,346	0	328,715	719,256	
SM-132	gas oil wells	Count	10,090	11	0	3,340	0	320,713	7 19,200	
3141-132	Residential - Single Family Dwelling	Count	2		100	525	558	558	525	2
SM-133				11				556	525	
SW-133	Gas_Oil_Production_Fields	Area (Acres)	204	6	0	0	0			
011 404	gas_oil_wells	Count	9			0		0	0	
SM-134	Gas_Oil_Production_Fields	Area (Acres)		7	0	0	0	ا	ا	
A11 4AA	gas_oil_wells	Count	1	9	0	0	0	0	0	-
SM-198	Commercial - Retail Trade	Count	2	12	47	4	3	i	ļ	1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,019	12	25	1,004	276		1	
	gas_oil_wells	Count	3	11	0	0			1	
	Natural Gas Pipeline	Length (ft)	4,380	12	0	832	0		1	<u></u>
	Petroleum Pipelines	Length (ft)	5,484	12	0	1,152	0	l	1	
	Rail_HAZUS_SDURS	Length (ft)	1,009	12	25	288	79	l	1	
	Residential - Multi-Dwellings- 10 to 19 u		2	12	100	66	70	I	1	2
	Residential - Multi-Dwellings- 20 to 49 u		2	12	100	72	77			2
	Residential - Single Family Dwelling	Count	7	12	100	1,966	2,090	2,595	5,383	2
SM-199	Communication_HAZUS_SDURS	Count	2	10	100	236	260	T	7	1
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	5,164	10	25	1,033	284	I	Ĺ	
	Residential - Multi-Dwellings- 10 to 19 u		2	10	50	30	18	I	[2
	Residential - Multi-Dwellings- 20 to 49 u	+	2	10	50	30	.18	l	[2
	Residential - Single Family Dwelling	Count	3	10	49	1,013	599	1,178	2,341	2:

SM-202	Residential - Single Family Dwelling	Count	2	10	47	531	300	300	531	22
SM-39	Commercial - Professional/ Technical Se	Count	2	6	38	184	118			14
	Commercial - Retail Trade	Count	2	6	23	508	285]		8
	Delta Roads PBSJ Major Roads	Length (ft)	4,675	6	25	1,543	424			-
	Delta Roads PBSJ Minor Roads	Length (ft)	17,230	6	25	3,446	948	1		(
	Hwy Bridge HAZUS SDURS	Count	4	4	25	8,000	2,200	1		
	Rail HAZUS SDURS	Length (ft)	3,727	6	25	1,062	292	1		7
	Residential - Single Family Dwelling	Count	8	6		2,318	1,035	1		18
	transin ca	Length (ft)	13,355	6	-	3,288	0	5,303	20,349	
SM-40	Delta Roads PBSJ Minor Roads	Length (ft)	7,779	9	25	1,556	428	428	1,556	ϵ
SM-41	Commercial - Professional/ Technical Se		1	10	47	4	3			17
-	Commercial - Retail Trade	Count	1	10		72	45			12
	Delta Roads PBSJ Minor Roads	Length (ft)	373	10			21			6
	Petroleum Pipelines	Length (ft)	10,067	10			0			(
	Rail_HAZUS_SDURS	Length (ft)	5,569	10			436	505	3,852	
SM-42	substation ca	Count	1	7	25		275			
V	transin ca	Length (ft)	3,060	7		753	2,0	275	1,753	
SM-43	Gas Oil Production Fields	Area (Acres)	95	9			0	2.3	1,100	
O.111-73	gas oil wells	Count	6	5			0			
	Residential - Single Family Dwelling	Count	2	9		504	266	266	504	
SM-44	Delta Roads PBSJ Minor Roads	Length (ft)	15,129	8			832	200	304	2
21VI- 44	Residential - Single Family Dwelling	Count	10,129	8			1,402			19
	transin ca	Length (ft)	5,355	8		1,318	1,402	2,234	7,267	
SM-46	Commercial - Retail Trade	Count	0,000	10			4	2,204	1,201	14
31VI-40	Delta Roads PBSJ Minor Roads	Length (ft)	2,339	10		468	129	133	474	
SM-47	solid waste facilities	Count	2,339	8			0	0	- 4/4	!
SM-48							8.747	. 0		
SIVI-48	Commercial - Entertainment and Recrea		1 1							17
	Commercial - Professional/ Technical Se			1 <u>0</u>		1,832	1,280			1
	Commercial - Retail Trade	Count	2	9			20,448			12
	gas_oii_wells	Count	2 04 04 7				0			
	Petroleum Pipelines Rail HAZUS SDURS	Length (ft)	21,217	10 10	-		815	24 200	E6 960	
041.40		Length (ft)	10,405					31,290	56,869	
SM-49	Commercial - Entertainment and Recrea		2	9			9,564			9
	Commercial - Professional/ Technical Se		2			16,552	11,562			17
	Commercial - Retail Trade	Count	2	9			11,334			12
	Commercial - Wholesale Trade	Count	3	9			7,439			10
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	22,129 3.040	9	-		1,217			3
	Hwy HAZUS SDURS	Length (ft)	3,040	9			276			13
	Industrial - Light Petroleum Pipelines	Count		9		11,685 4,112	6,684			10
	Rail HAZUS SDURS	Length (ft)	19,582	9		.,				<u> </u>
		Length (ft)	9,852				772	#n enn	04 400	J
SM-51	Residential - Single Family Dwelling Gas Oil Production Fields	Count	12	9		3,626	2,045	50,892 0	91,100	<u> </u>
SM-52		Area (Acres)	3	8			0	٥		
3IVI-3Z	Commercial - Retail Trade	Count	2	7	26		147			9
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	9,912		25		545			<u> </u>
	Gas_Oil_Production_Fields	Area (Acres)	192	7	Ö		0			
	gas_oil_wells	Count	8	8			0			
	Hwy_Bridge_HAZUS_SDURS	Count	2	5			1,100			<u> </u>
	Hwy_HAZUS_SDURS	Length (ft)	686	7	~~		62	1		3
	Residential - Multi-Dwellings- 10 to 19 ur		2	7			5			21
	Residential - Multi-Dwellings- 20 to 49 ur		2	. 7	43		5	1		2
	Residential - Single Family Dwelling	Count	4	. 7	39	924	443	2,307	7,403	19
SM-53	Commercial - Retail Trade	Count	1	5	18	56	29			

	Delta Roads PBSJ Minor Roads	Length (ft)	53	5	25	11	31	I	1	
	Gas Oil Production Fields	Area (Acres)	180	5	<u>-</u> 0		<u> </u>	I		
	gas oil wells	Count	3	4				ľ		
	Residential - Multi-Dwellings- 10 to 19 to		1	5	29	2	- 1	J		
	Residential - Multi-Dwellings- 10 to 19 to		1	5	29	2		33	70	
SM-54	Commercial - Personal and Repair Ser		3	8	28	1,878	1,116		70	
3141-04	Commercial - Personal and Repair Ger		2	8	44	22,064	15,048			
	Commercial - Retail Trade	Count	2	8	30	21,268	12,867			
	Commercial - Wholesale Trade	Count	7	8	25	35,342	20,410			
	Delta Roads PBSJ Major Roads	Length (ft)	3,187	8	25	1,052	20,410			
	Delta Roads PBSJ Minor Roads	Length (ft)	37.086	8	25	7,417	2,040			
	gas oil wells	Count	57,000	8	0	7,417	2,040			
	Hwy Bridge HAZUS SDURS	Count	4	6	25	8,000	2,200			
	Hwy HAZUS SDURS	Length (ft)	3.020	8	25	997	2,200			
	Industrial - Construction	Count	3,020	8	100	13,320	11,722			
	Industrial - Heavy	Count	3	8	35	35,857	19,721	1		
	Natural Gas Pipeline	Length (ft)	460	8	0	87	19,721	1		
	Petroleum Pipelines	Length (ft)	48,353	8	 	10,154	0	ł		
	rail 1000 nodes	Count	40,353	5		10,154	0	1		
	Rail Facility HAZUS SDRUS	Count	2	3	25	5.145	1,415			
	Rail HAZUS SDURS	Length (ft)	50,708	8	25	14,452	3,974	ļ		
	Residential - Multi-Dwellings- 10 to 19 u			8	46	14,452	10	1		
	Residential - Multi-Dwellings- 10 to 19 to		2	8	46	9	5	1		
	Residential - Night-Dwellings- 20 to 49 to	Count	12	8	46	3,524	1,861	1		
	solid waste facilities	Count	2	4	25	3,524	1,001	92,951	180,583	
SM-55	Delta Roads PBSJ Minor Roads					-		92,951	100,503	
2141-22		Length (ft)	18,625	13	25	3,725	1,024	1		
	Natural Gas Pipeline	Length (ft)	4,433	13	0	842	0			
	Petroleum Pipelines Residential - Single Family Dwelling	Length (ft)	4,424	13 13	100	929 848	902	1.926	6 245	
3M #0	<u> 1 5 7 0 </u>		3					1,920	6,345	
SM-56	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	7,016	9	25	1,403	386	1		
	gas_oil_wells	Count	2	8	0	0	0	i		
	Natural Gas Pipeline	Length (ft)	5,029	9	0	956	0			
	Petroleum Pipelines	Length (ft)	3,101	9	0	651	0	4 400	4 400	
	Residential - Single Family Dwelling	Count	4	. '9	47	1,426	804	1,190	4,436	
SM-57	bridges_not_in_HAZUS	Count	2	4	25	2,000	550			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	37	6	25	12	3			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	12,785	6	25	2,557	703			
	hc_ambulatory	Count	3	4	14	0	0	1		
	Hwy_Bridge_HAZUS_SDURS	Count	2	5	25	4,000	1,100	l		<u></u>
	Hwy_HAZUS_SDURS	Length (ft)	2,242	6	25	740	203	l		
	Natural Gas Pipeline	Length (ft)	5,916	6	0	1,124	0	l		
	Residential - Single Family Dwelling	Count	25	6	37	8,376	3,741	l	İ	
	solid_waste_facilities	Count	2	6	25	0	0	l		
	transin_ca	Length (ft)	12,040	6	-	2,964	0	1		
25.5	water_trans	Count	2	4	-	0	0	6,301	21,774	
SM-58	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	3,841	9	25	768	211	211	768	
SM-59	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	377	7	25	75	21			
	Gas_Oil_Production_Fields	Área (Acres)	275	7	Ö	Ó	Ö	1		
	gas_oil_wells	Count	9	6	0	0	0	Į.		
	Hwy_HAZUS_SDURS	Length (ft)	4,382	7	25	1,446	398	· ·	1	
	Residential - Single Family Dwelling	Count	2	7	37	570	255	673	2,091	
SM-60	Commercial - Entertainment and Recre	a Count	2	6	16	22,628	11,699			
	Commercial - Personal and Repair Sen	il Count	2	6	19	10.016	5,344			

	Commercial - Professional/ Technical Se	Count	2	6	35	6,792	4,221	1	1	
	Commercial - Retail Trade	Count	2	6		2,424	1,307	l		
	Delta Roads PBSJ Minor Roads	Length (ft)	5,186	6		1,037	285	1		
	gas oil wells	Count	3,100	3	0	1,037	203	l		
	Hwy Bridge HAZUS SDURS	Count	2	10	25	4,000	1,100	l		
	Residential - Single Family Dwelling	Count	3	6	33	659	261	24,216	47.556	
M-84	Commercial - Retail Trade	Count	2	11	42	324	217	2-1,2-10	-17,000	
WI-04	Delta Roads PBSJ Minor Roads	Length (ft)	74,035	11	25	14,807	4,072	l		
	Gas Oil Production Fields	Area (Acres)	10	11	0	0	4,072			
	gas oil wells	Count	9	10	0	0	0			
	Residential - Single Family Dwelling	Count	15	11	100	4,770	5,072	9,361	19,901	
M-85-Grizzly_Island	Delta Roads PBSJ Minor Roads	Length (ft)	58,489	9	25	11,698	3,217	9,501	10,501	
ivi-65-Gi izziy_islaliu	Gas Oil Production Fields	Area (Acres)	190	9	0	0	3,217			
					0	0				
	gas_oil_wells	Count	12	8	0		0			
	Natural Gas Pipeline	Length (ft)	30,135	. 9		5,726				
	Petroleum Pipelines	Length (ft)	2,326	9	0	488	0	4 404	00.070	
	Residential - Single Family Dwelling	Count	7	9	44	2,360	1,247	4,464	20,272	L
mith_Tract	Commercial - Entertainment and Recrea		5	5	16	7,726	3,952			_
	Commercial - Personal and Repair Servi		5	5	19	11,508	6,076			
	Commercial - Professional/ Technical Se		1	5		4,708	2,900			
	Commercial - Retail Trade	Count	1	5	20	12,350	6,589			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	19,013	5	25	6,274	1,725			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	218,779	5	25	43,756	12,033			
	hc_ambulatory	Count	6	5	14	0	0			
	hc_nursing_res	Count	1	10	23	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	9	3	25	18,000	4,950			
	Hwy_HAZUS_SDURS	Length (ft)	6,636	5	25	2,190	602			
	Religion - Churches and other Non-Profit		1	5	12	4,602	2,177			
	Residential - Duplex	Count	31	5	32	14,154	5,532			
	Residential - Manuf. Housing	Count	14	5	100	909	920			
	Residential - Multi-Dwellings - 10 to 19 u		3	5	32	72,285	28,254			
	Residential - Multi-Dwellings - 20 to 49 u	Count	1	5	32	68,052	26,599			
	Residential - Multi-Dwellings - 5 to 9 units	Count	3	5	32	17,250	6,742			
	Residential - Multi-Dwellings - 50+ units	Count	3	5	32	54,713	21,385			
	Residential - Multi-Dwellings- 10 to 19 ur	Count	3	5	32	15,125	5,912			
	Residential - Single Family Dwelling	Count	4,093	5	33	1,030,175	407,383			
	Residential - Triplex-Quads	Count	10	5	32	10,325	4,036			
	Schools_HAZUS_SDURS	Count	6	6	10	7,080	3,349	551,116	1,401,180	
tark_Tract	Delta_Roads_PB\$J_Minor_Roads	Length (ft)	1,602	10	25	320	88		***************************************	
	gas_oil_wells	Count	1	11	0	0	0	I		
•	Natural Gas Pipeline	Length (ft)	4,944	10	. 0	939	0	1		
	Residential - Single Family Dwelling	Count	12	10	49	3,024	1,788	- 1		
	transin_ca	Length (ft)	15,027	10	- 1	3,700	Ö	1,876	7,984	
taten_island	Commercial - Retail Trade	Count	3	27	100	738	812			
_	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,422	27	25	1,459	401	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	132,282	27	25	26,456	7,276	1		
	Gas_Oil_Production_Fields	Area (Acres)	1,623	27			0	l		
	gas oil wells	Count	34	25	o l	0		1		
	Hwy Bridge HAZUS SDURS	Count	3	25	25	6,000	1,650	ı		
	Natural Gas Pipeline	Length (ft)	26,159	27	0	6,801	0	ı		
	Natural Gas Wells	Count	4	22		0,001	ŏ	l		
		Count	21	27	100	986	1,023	ı		
		Count	9	27	100	1,553	1,651	12,812	43,993	
	1	1	ျ	21	1001	1,000	1,001	12,012	70,000	

towart Tract	Commercial - Professional/ Technical	SdCount .	1	9	44	338	231			
ewart_Tract		Count		9	30	1,150	696			
	Commercial - Retail Trade Delta Roads PBSJ Minor Roads	Length (ft)	61,566	9	25	12,313	3,386			
			7	9	0	0	3,300			
	gas_oil_wells	Count	6							<u> </u>
	Hwy_Bridge_HAZUS_SDURS	Count		9	25 25	12,000	3,300	- 1		
	Hwy_HAZUS_SDURS	Length (ft)	7,635			2,520	693	1		
	Rail_HAZUS_SDURS	Length (ft)	4,671	9	25	1,331	366	1		
	Residential - Manuf. Housing	Count	13	9	100	702	726	i i		
	Residential - Multi-Dwellings- 10 to 19		1	9	46	228	124			
	Residential - Single Family Dwelling	Count	62	9	44	16,019	8,461			
	transin_ca	Length (ft)	29,192	9	-	7,187	이	17,981	53,788	
utter Island	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,515	17	25	1,160	319			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	63,251	17	25	12,650	3,479			
	Gas_Oil_Production_Fields	Area (Acres)	28	7	0	. 0	0			
	Gas_Oil_Production_Fields	Area (Acres)	657	20	0	0	0			
	gas_oil_wells	Count	5	17	0	0	0			
	Hwy_HAZÚS_SDURS	Length (ft)	5,146	17	25	1,698	467			
	Residential - Manuf. Housing	Count	2	17	100	60	62			
	Residential - Multi-Dwellings- 10 to 19	ur Count	1	17	100	510	542			
	Residential - Single Family Dwelling	Count	38	17	100	10,256	10,905	15,774	26,334	
erminous_Tract 1	Commercial - Professional/ Technical	Se Count	4	6	- 38	16	10			
-	Commercial - Retail Trade	Count	4	6	23	2,512	1,409			
	Delta Roads PBSJ Major Roads	Length (ft)	11,549	6	25	3,811	1,048	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	58,842	6	25	11,768	3,236			
	gas oil wells	Count	5	6	0	0	0	1		
	Hwy Bridge HAZUS SDURS	Count	12	6	25	24,000	6,600	1		
i i	Hwy HAZUS SDURS	Length (ft)	15,541	6	25	5,129	1,410	1		
	Natural Gas Pipeline	Length (ft)	651	6	0	150	0			
	Residential - Manuf. Housing	Count	46	6	100	2,415	2,462	1		
	Residential - Single Family Dwelling	Count	23	6	37	4,226	1,887	ı		
	Schools HAZUS SDURS	Count	4	5	10	4,720	2,181			
	transin ca	Length (ft)	31,244	6		7,693	2,101	20,244	66,440	
erminous_Tract 2	Agriculture	Count	5	22	100	11,350	10,737	20,277	00,440	
stillinous_tract2	Boatlaunch	Count	5	26	100	500				ļ
	Commercial - Professional/ Technical		5	22	100	860	550 946			
	Commercial - Retail Trade		5	22	100		***************************************			
	Commercial - Retail Trade Commercial - Wholesale Trade	Count	5			6,410	7,051			
		Count		22	100	20,310	22,341			·
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,608	22	25	1,191	327			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	419,696	22	25	83,939	23,083			
	gas_oil_wells	Count	21	21	0	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	5	17	25	10,000	2,750			
	Hwy_HAZUS_SDURS	Length (ft)	24,236	22	25	7,998	2,199			
	Natural Gas Wells	Count	1	18		0	0			
	Residential - Duplex	Count	9	22	100	3,848	4,091	ŀ		
	Residential - Manuf. Housing	Count	859	22	100	43,998	45,655			
	Residential - Single Family Dwelling	Count	337	22	100	69,152	73,532			
	US_cell_towers	Count	5	23	- 1	1,250	0	193,264	260,806	
erminous_Tract 3	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,060	11	25	212	58			
	Residential - Manuf. Housing	Count	30	11	100	1,479	1,534	1		
	Residential - Single Family Dwelling	Count	13	11	49	2,360	1,395	2,988	4,050	
vitchell_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	42,409	24	25	8,482	2,332			
	Gas_Oil_Production_Fields	Area (Acres)	2,199	24	0	0	0	l		
	gas oil wells	Count	35	23	0	0	Ö			

	Natural Gas Pipeline	Length (ft)	8,804	24	ol	2,025	0	1	1	
•	Natural Gas Wells	Count	19	24		2,025				
	Residential - Duplex	Count	2	24	100	792	842			
	Residential - Manuf. Housing	Count	45	24	100	2,324	2,411			
			2	24	100	141	150			
	Residential - Multi-Dwellings- 10 to 19 ur		39		100	8.054	8.564			
	Residential - Single Family Dwelling	Count		24				44.005	00.405	
	Residential - Triplex-Quads	Count	2	24	100	588	625	14,925	22,405	
yler_lsland 2	Airports_HAZUS_SDURS	Count	1	23	25	6,431	1,769			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	5,160	23	25	1,703	468			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	167,781	23	25	33,556	9,228			
	Gas_Oil_Production_Fields	Area (Acres)	4,216	23	0	0	0	- 1		
	gas_oil_wells	Count	96	23	0	0	0	1		
	Hwy_Bridge_HAZUS_SDURS	Count	1	17	25	2,000	550	- 1	-	
	Natural Gas Pipeline	Length (ft)	35,510	23	, 0	7,457	0	1		
	Natural Gas Wells	Count	13	26	-	0	0	į.		
	Residential - Manuf. Housing	Count	2	23	100	245	254	1	İ	
	Residential - Single Family Dwelling	Count	17	23	100	4,800	5,104	į.	ļ	
	Runway HAZUS SDURS	Count	1	9	25	36,674	10,085	1	1	
	solid waste facilities	Count	1	10	25	0	Ö	27,458	92,866	
nion_Island 1	Dams HAZUS SDURS	Count	1	18	0	ol	o		-,	
	Delta Roads PBSJ Major Roads	Length (ft)	50,137	15	25	16,545	4,550	j	ł	
•	Delta Roads PBSJ Minor Roads	Length (ft)	458,101	15	25	91,620	25,196			
	Gas Oil Production Fields	Area (Acres)	2,959	15	0	91,020	25,190	J	ł	
	gas oil wells	Count	2,959	12	, 01	0	0	J	ŀ	
	Natural Gas Pipeline	Length (ft)	63,468	15	0	12,059	0		}	
			. ,,			12,039	0			
	Natural Gas Wells Residential - Duplex	Count	15 7	11	100				ŀ	
		7		15		2,996	3,186			
		Count	9	15	42	54,324	31,233			
	Residential - Manuf. Housing	Count	41	15	100	1,790	1,857			
	Residential - Single Family Dwelling	Count	160	15	100	40,525	43,091			
	Schools_HAZUS_SDURS	Count	3	15	45	3,540	2,512	1		
	transin_ca	Length (ft)	123,471	15		30,400	0			
	US_cell_towers	Count	3	15	-	750	0	111,624	254,549	
nion_lsland 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,163	7	25	233	64	1		
	Gas_Oil_Production_Fields	Area (Acres)	1	7	Ö	0	0	1		
	Natural Gas Pipeline	Length (ft)	2,583	7	0	491	0	64	723	
Inion_Island 3	Delta Roads PBSJ Minor Roads	Length (ft)	8,039	10	25	1,608	442			
	gas oil wells	Count	4	10	0	o	0	1	l	
	Natural Gas Pipeline	Length (ft)	6,943	10	Ö	1,319	0	1		
	Residential - Single Family Dwelling	Count	4	10	47	1,077	608	1	ļ	
	transin ca	Length (ft)	16,119	10		3,969	0	1.050	7.973	
nion Island 4	Delta Roads PBSJ Minor Roads	Length (ft)	6.881	7	25	1,376	378	.,000	7,070	
	Gas Oil Production Fields	Area (Acres)	70	7	25	0	0		}	
	gas oil wells	Count	3	6	- 0	0			}	
	Natural Gas Pipeline	Length (ft)	1,029	7	0	196	0	378	4 570	
nnor Baharta Island								3/8	1,572	
pper_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	343,299	7	25	68,660	18,881		1	
	Gas_Oil_Production_Fields	Area (Acres)	1,279	7	0	0	0		1	
	gas_oil_wells	Count	32	7	0	0	0	l	ļ	
	Hwy_Bridge_HAZUS_SDURS	Count	3	8	25	6,000	1,650		Į.	
	Natu_Gas_HAZUS_SDURS	Count	1	9	O	1,286	0		Ĺ	
	Natural Gas Pipeline	Length (ft)	21,809	7	0	4,144	0		[
	Natural Gas Wells	Count	18	7	-1	0	0		[
	Residential - Manuf, Housing	Count	10	7	100	604	618	1	Ī	

	Residential - Single Family Dwelling	Count	118	7	37	30,636	13,682	1	ı	18
	transin ca	Length (ft)	60,815			14,973	0	34,831	126,303	10
Van_Sickle_Island	Gas_Oil_Production_Fields	Area (Acres)	293	12	0	0	0	04,001	120,000	
Van_olokic_island	gas oil wells	Count	16	13		0	0			
	Residential - Single Family Dwelling	Count	3	12		810	861	I		24
	sewage treat	Count	1	12		100,000	33,000	33,861	100,810	
Veale_Tract 1	Commercial - Professional/ Technical Se		il	12		336	333	00,001	100,010	18
veaic_mact i	Commercial - Retail Trade	Count	il	12		104	70			15
	Delta Roads PBSJ Minor Roads	Length (ft)	7,134	12	-	1,427	392			- 18
	Gas Oil Production Fields	Area (Acres)	85	12	23	0,	0			(
	gas oil wells	Count	6	12	0	0	0			
	Residential - Manuf. Housing	Count	6	12		320	332	ł	ŀ	24
	Residential - Single Family Dwelling	Count	37	12	100	11,615	12,350	1		2.
	transin ca	Length (ft)	25,269	12	-	8,136	12,330	13,476	21,937	
Veale Tract 2	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	2,270	8		454	125	10,470	21,007	
Vodio_11dot 2	Natural Gas Pipeline	Length (ft)	8	8		2	0	1	1	,
		Count	20	8		107,550	34,939		l	
	Residential - Single Family Dwelling	Count	39	8		12,402	5,950	41,015	120,408	19
Venice_Island	Delta Roads PBSJ Minor Roads	Length (ft)	66,239	29	25	13,248		41,015	120,400	
- 000_131a110	gas oil wells	Count	60,239		25 0	13,248	3,643	l		(
	Residential - Manuf. Housing	Count	2	29	100	60	62	2 705	40 200	24
Victoria_Island	Delta Roads PBSJ Minor Roads							3,705	13,308	
Victoria_island	gas oil wells	Length (ft)	67,412	22 23	25	13,482	3,708	1		(
	Hwy HAZUS SDURS	Count Length (ft)	23,053	23	0 25	0	0 000	1		(
	Natural Gas Pipeline	Length (ft)	9,171	22		7,607	2,092	ŀ		
	<u> </u>	Count			100	1,742		l		(
	Residential - Manuf. Housing	Count	5	22	100	28,835 45	30,661 47			24
	Residential - Single Family Dwelling	Count	3	22	100	1,196	1,271			24
	transin ca	Length (ft)	12,954	22	100	4,171	1,2/1	37,778	57.078	24
Walnut_Grove	Commercial - Professional/ Technical Se		2	15	100	1,108	1,219	31,110	57,076	18
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Commercial - Retail Trade	Count	2	15	100	576	634			18
	Communication HAZUS SDURS	Count	5	19	100	590	649			18
	Delta Roads PBSJ Major Roads	Length (ft)	3,282	15	25	1,083	298	Į.		10
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	34,909	15	25 25	6,982	1,920			
	Gas Oil Production Fields	Area (Acres)	285	15	0	0,302	1,920	1	}	
	gas oil wells	Count	5	18	0	- 0	0	ŀ	ŀ	
	hc ambulatory	Count	2	6		- 0			ŀ	
	Hwy Bridge HAZUS SDURS	Count	3	14	25	6,000	1,650		ŀ	
	Residential - Duplex	Count	21	15	100	8,915	9,479		1	24
	Residential - Manuf. Housing	Count	11	15	100	653	678			24
	Residential - Single Family Dwelling	Count	205	15	100	54,627	58,086	74,612	80,533	24
Walthal_Tract	Commercial - Retail Trade	Count	2	10	34	156	98	74,012	00,000	12
· · · · · · · · · · · · · · · · · · ·	Delta_Roads_PBSJ_Major_Roads	Length (ft)	9,300	10	25	3,069	844	j	}	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	46,294	10	25	9,259	2,546	l	}	6
	Gas Oil Production Fields	Area (Acres)	690	10	0	9,209	2,340	1	ŀ	
	gas oil wells	Count	11	10	Ö	0			ł	
	Hwy_Bridge_HAZUS_SDURS	Count	2	15	25	4,000	1,100		ŀ	- 3
	Natural Gas Pipeline	Length (ft)	2,033	10	0	661	1,100		ŀ	
	Natural Gas Wells	Count	2,000	9		0			ŀ	
	Residential - Manuf. Housing	Count	51	10	100	2,673	2,764	ŀ	}	24
	Residential - Multi-Dwellings- 20 to 49 ur		2	10	48	2,073	50		}	23
	Residential - Single Family Dwelling	Count	181	10	47	47,762	26,943		ŀ	22
	transin ca	Length (ft)	7,981	10		1,965	20,043	34,346	69,632	
	[manoni_od	leanan (n)	1,501	10	-	1,900	٥	34,340	09,032	

Water Body	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1	14	25	0	0	0	0	
Water Canal	Gas Oil Production Fields	Area (Acres)	87	11	0	0	0			
	gas oil wells	Count	4	9	0	0	0			
	Natural Gas Pipeline	Length (ft)	1,178	11	0	224	0	o	224	
Water Zone 1	Boatlaunch	Count	14	14	100	1.400	1,540			
	bridges not in HAZUS	Count	11	26		11,000	3,025			
	Commercial - Entertainment and Recrea		11	12		21,919	14,105			1
	Commercial - Personal and Repair Servi		2	12	43	7,960	5,385			-
	Commercial - Professional/ Technical Se		2	12	100	46,208	45,746			
	Commercial - Retail Trade	Count	2	12	47	19,724	13,777			
	Commercial - Wholesale Trade	Count	5	12	41	28,790	19,160			
	Delta Roads PBSJ Major Roads	Length (ft)	71.911	12	25	23,731	6,526	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	257,700	12		51,540	14,174	1		
	Fire Stations SDURS	Count	201,700	1	7	3,540	927	l		
	Gas Oil Production Fields	Area (Acres)	2,780	12		3,340	0	l		
	gas oil wells	Count	31	11		-	- 0	I		
	Government - General Services	Count	2	12		6.530	4,770	1		
	Hazmat HAZUS SDURS		4	24		0,530	4,770	I		
		Count	2			0	0	1		
	hc_ambulatory	Count	5					I		ļ
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS	Count		2 <u>2</u>		10,000	2,750	i		
		Length (ft)	92,588	12		30,554	8,402			
	Industrial - Heavy	Count	50.070	12		11,670	7,497			
	Natural Gas Pipeline	Length (ft)	59,976	12		16,793	0			
	Petroleum Pipelines	Length (ft)	5,369	12		1,127	0			
	Police Stations HAZUS SDURS	Count	2	1	7	8,260	2,162			
	Port_HAZUS_SDURS	Count	10	26		25,724	0			
	rail_1000_nodes	Count	4	24		. 0	0			
	Rail_HAZUS_SDURS	Length (ft)	9,756	12		2,780	765			
	Residential - Duplex	Count	2	12		4,626	4,919	1		
	Residential - Institutional and Dormitory I		2	12		22,521	11,346	1		
	Residential - Manuf. Housing	Count	78	12		4,292	4,454	i		
	Residential - Multi-Dwellings - 5 to 9 unit		2	12		10,074	10,712	i		
	Residential - Multi-Dwellings- 10 to 19 ur		2	12		1,668	1,774			
	Residential - Multi-Dwellings- 20 to 49 ur	Count	2	12		5,361	5,701	ŀ		
	Residential - Single Family Dwelling	Count	464	12		128,996	137,165			
	Residential - Triplex-Quads	Count	3	12	100	4,084	4,342	ł		
	Schools_HAZUS_SDURS	Count	2	2	5	2,360	623			
	sewage_treat	Count	.2	28	30	150,000	49,500	l		
	substation_ca	Count	6	11:	25	6,000	1,650	İ		
	tankfarms	Count	2	32	-1	6,000	0			
	transin_ca	Length (ft)	44,972	12	-	11,073	0	382,896	686,306	
Vater Zone 2	Boatlaunch	Count	14	9	100	1,400	1,540			
	bridges not in HAZUS	Count	6	11		6,000	1,650	1		
	Commercial - Entertainment and Recrea		2	10		2,644	1,585	i		
	Commercial - Medical Clinics	Count	2	10		5,075	3,216			
	Commercial - Personal and Repair Servi		2	10		8,004	5,063			
	Commercial - Professional/ Technical Se		2	10		26,192	18,727			
	Commercial - Retail Trade	Count	2	10		10,760	6,983			
	Delta Roads PBSJ Major Roads	Length (ft)	635	10		210	58	1		
	Delta Roads PBSJ Minor Roads	Length (ft)	91,624	10		18,325	5,039	l		
	Gas Oil Production Fields	Area (Acres)	2,499	10		18,325		i		
							9			
	gas_oil_wells	Count	40	8	L	0	0			ļ
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	818	10	0	172	0	ı		L

1	Illian Dridge HAZHE COURC	Count	l el	9	251	12,000	3,300			<u></u>
	Hwy_Bridge_HAZUS_SDURS	Count	6				1,158			ુ
	Hwy_HAZUS_SDURS	Length (ft)	12,764	10		4,212 13.075				
	mokelumne_aqueduct_pipe	Length (ft)	2,615	10			0			<u> </u>
	Natural Gas Pipeline	Length (ft)	39,494	10		7,504				0
	Natural Gas Wells	Count	1	7		0	0			0
	Petroleum Pipelines	Length (ft)	95,126	10		19,976	0			0
	Port_HAZUS_SDURS	Count	18	10		46,303	0			0
	rail_1000_nodes	Count	7	10		0	0			0
	Rail_Bridge_HAZUS_SDURS	Count	2	11		2,000	550			1
	Rail_HAZUS_SDURS	Length (ft)	34,231	10		9,756	2,683			1
	Religion - Churches and other Non-Profit	Count	2	10		5,716	3,175			6
	Residential - Duplex	Count	3	10		3,272	1,955			24
	Residential - Institutional and Dormitory I	Count	2	10	26	13,323	5,667			12
	Residential - Manuf. Housing	Count	36	10	100	2,077	2,155			24
	Residential - Multi-Dwellings- 10 to 19 un	Count	2	10	50	1,677	1,002			24
	Residential - Multi-Dwellings- 20 to 49 ur		2	10	50	2,457	1,468	1		24
	Residential - Single Family Dwelling	Count	1,163	10	49	425,953	251,844	1		23
	Residential - Triplex-Quads	Count	2	10		2,061	1,232	1		24
		Count	5	10		1,037,500	342,375	1		12
		Count	2	11		2,000	550	1		0
		Length (ft)	34,667	10		8,535	0	1		0
		Count	2	4	 	0	ō	662,976	1,698,178	0
Water Zone 3		Count	2	10		0	ol	002,010	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0
Water Zone 3	Boatlaunch	Count	9	9		900	990	1		0
		Count	2	11		2.000	550	1		3
	Commercial - Professional/ Technical Se		2	10		4,164	2,977	- 1		18
		Count	2	10		972	631]		14
			5,123	10		1,691	465	ı		6
	Delta Roads PBSJ Minor Roads	Length (ft)	86,042	10		17,208	4,732			6
		Length (ft)		10		17,200	4,732	ı		0
		Area (Acres)	841	10		0	<u>\</u>			0
	gas_oil_wells	Count	5				4 400			0
	Hwy_Bridge_HAZUS_SDURS	Count	8	. 9		16,000	4,400	- 1		3
	Hwy_HAZUS_SDURS	Length (ft)	3,508	10		1,158	318	1		3
	Natural Gas Pipeline	Length (ft)	7,115	10		1,636	0			0
		Count	2	5		0	0			0
		Length (ft)	187	10		53	15			1
	Residential - Duplex	Count	2	10		2,241	1,339			24
	Residential - Manuf. Housing	Count	69	10		3,790	3,933	l		24
	Residential - Multi-Dwellings- 10 to 19 ur		2	10		225	134	l		24
	Residential - Multi-Dwellings- 20 to 49 ur		2	10		45	27			24
		Count	173	10		48,642	28,760			23
		Count	2	10		1,002	599	l		24
	sewage_treat	Count	2	17		170,000	56,100	ł		12
	transin_ca	Length (ft)	5,952	10		1,465	0	1		0
	water_trans	Count	2	10	-	0	0	105,970	273,193	0
Water Zone 4	Airport Points	Count	2	6	25	0	0			0
		Count	4	7	100	400	440			0
	Commercial - Entertainment and Recrea	Count	2	10		3,536	2,061			9
	Commercial - Personal and Repair Servi		6	10		14,177	8,733			12
	Commercial - Professional/ Technical Se		2	10		23,460	16,387			17
	Commercial - Retail Trade	Count	2	10		3.072	1,926	- 1		12
		Count	 	10		6,280	3,765	1		10
1		Length (ft)	92,791	10		18,558	5,104	l		6

	One Oil Broduction Fields	10 (0)	100	40	01	0	- 01			
	Gas_Oil_Production_Fields	Area (Acres)	136	10			<u> </u>			0
	gas_oil_wells	Count	2	10	0	0	0			0
1	gas_pipeline_kinder_morgan_LS_9	Length (ft)	2,097	10	0	440	0			0
	Hwy_Bridge_HAZUS_SDURS	Count	4	11	25	8,000	2,200			3
	Hwy_HAZUS_SDURS	Length (ft)	7,758	10		2,560	704			3
	mokelumne_aqueduct_pipe	Length (ft)	8,378	10	0	41,890	0			0
	Natural Gas Pipeline	Length (ft)	21,265	10	0	4,040	0			0
	Rail_HAZUS_SDURS	Length (ft)	2,955	10		842	232			1
	Residential - Duplex	Count	6	10	48	2,786	1,600	- 1		23
	Residential - Manuf. Housing	Count	5	10	100	356	368	1		24
	Residential - Multi-Dwellings - 5 to 9 unit		2	10	48	6,408	3,679			23
	Residential - Multi-Dwellings- 10 to 19 ur		2	10		3,168	1,819	1		23
	Residential - Multi-Dwellings- 20 to 49 ur		2	10	48	1,452	834]		23
	Residential - Single Family Dwelling	Count	211	10	47	60,543	34,153	I		22
	Residential - Triplex-Quads	Count	5	10	48	2,580	1,481	1		23
	sewage_treat	Count	2	11	30	0	0	1		12
	transin_ca	Length (ft)	8,997	10	-	2,897	0	85,486	207,446	
Water Zone 5	bridges_not_in_HAZUS	Count	2	7	25	2,000	550			3
	Commercial - Professional/ Technical Se		2	12	100	1,308	1,295	1		18
	Commercial - Retail Trade	Count	2	12	42	3,564	2,391	- 1		15
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	4,502	12	25	1,486	409	1		6
•	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	61,223	12	25	12,245	3,367	i		6
	Gas_Oil_Production_Fields	Area (Acres)	153	12	0	0	O,	Ì		0
	gas_oil_wells	Count	4	10	0	0	0			0
	Government - General Services	Count	2	12	35	4,560	3,230			13
	Hwy Bridge HAZUS SDURS	Count	9	11	25	18,000	4,950			3
	Hwy HAZUS SDURS	Length (ft)	2,402	12	25	793	218			3
	Natural Gas Pipeline	Length (ft)	9,989	12	0	3,246	0			0
	Natural Gas Wells	Count	1	6	-	0	0			0
	Petroleum Pipelines	Length (ft)	1,469	12	0	308	0			0
	Rail HAZUS SDURS	Length (ft)	4,812	12	25	1,371	377			1
	Residential - Institutional and Dormitory		2	12	30	11,325	5,265			14
	Residential - Manuf. Housing	Count	12	12	100	763	791			24
	Residential - Multi-Dwellings- 10 to 19 ur	Count	2	12	100	960	1,021			24
	Residential - Multi-Dwellings- 20 to 49 ur	Count	2	12	100	1,479	1,573			24
	Residential - Single Family Dwelling	Count	250	12	100	70,241	74,690	l		24
	transin ca	Length (ft)	33,210	12	-	8,177	0	100,128	141,826	0
Webb_Tract	Gas Oil Production Fields	Area (Acres)	83	27	0	ol	0	,		0
-	gas oil wells	Count	18	25	ő	ő	ŏ			0
	Natural Gas Pipeline	Length (ft)	1,292	27	ō	245	ō			0
	Natural Gas Wells	Count	1	21	-	0	ō	1		0
	Residential - Single Family Dwelling	Count	1	27	100	171	182	182	416	
West Sacramento North	Agriculture	Count	3	14		14,388	13,611		****	18
	air trans	Count	3	15		14,500	10,011	Ī		0
	Airport Points	Count	3	10	25	Ö	- 6	ļ		0
	Boatlaunch	Count	2	21	100	200	220	i		0
	bridges not in HAZUS	Count	13	11	25	13,000	3,575			0
	Commercial - Banks	Count	7	14		11,850	9,124			14
	Commercial - Entertainment and Recrea		42	14	45	67,404	53,755			16
	Commercial - Medical Clinics	Count	13	14	37	37,718	31.034			13
	Commercial - Personal and Repair Servi		69	14	50	162,066	133,704			18
	Commercial - Professional and Technica		7	14	100	225,274	247,801			18
	Commercial - Professional and Technical	Count	3	14	100	195,963	215,559	1		18
	Commercial - Netall Haus	LOGGIK	<u> </u>	14	1001	190,903	∠10,009	1		18

Commercial - Wholesale Trade	Count	105	14	49	482.846	395,692	1	I	18
Delta Roads PBSJ Major Roads	Length (ft)	98.688	14	25	32.567	8.956			6
Delta Roads PBSJ Minor Roads	Length (ft)	595,913	14	25	119,183	32,775			6
Government - Emergency Response	Count	2	14	100	11,480	11,618			18
Government - General Services	Count	5	14	48	13,246	10,141			17
Hazmat HAZUS SDURS	Count	21	6	-	13,240				17
		49	12	30	0				11
hc_ambulatory	Count		22		0	0			
hc_hospital	Count	3		100					18
hc_nursing_res	Count	5	14	42	0	0	i		20
Hwy_Bridge_HAZUS_SDURS	Count	27	11	25	54,000	14,850			3
Hwy_HAZUS_SDURS	Length (ft)	44,711	14	25	14,755	4,058			3
Industrial - Construction	Count	14	14	100	55,082	50,895			18
Industrial - Food-Drug-Chemicals	Count	13	14	42	210,178	133,168			15
Industrial - Heavy	Count	13	14	100	88,393	78,564			18
Industrial - Light	Count	7	14	50	54,999	36,783			18
intermodal_terminal_facilities	Count	5	14	-	0	0			
Natural Gas Pipeline	Length (ft)	38,321	14	0	9,963	0			(
Petroleum Pipelines	Length (ft)	33,587	14	0	7,053	0			C
pipeline_trans	Count	1	1		0	0			C
Police_Stations_HAZUS_SDURS	Count	2	5	15	8,260	4,579			5
Port_HAZUS_SDURS	Count	5	22	0	12,862	0			C
rail_1000_nodes	Count	21	. 10	-	0				C
Rail_Bridge_HAZUS_SDURS	Count	6	8	25	6,000	1,650			1
Rail_Facility_HAZUS_SDRUS	Count	6	19	100	15,434	16,978			C
Rail_HAZUS_SDURS	Length (ft)	69,909	14	25	19,924	5,479			1
Religion - Churches and other Non-Profit	Count	7	14	38	39,847	26,737			14
Residential - Duplex	Count	282	14	100	106,960	113,735			24
Residential - Institutional and Dormitory I	Count	10	14	42	47,469	27,291			20
Residential - Manuf. Housing	Count	1,956	14	100	99,892	103,654			24
Residential - Multi-Dwellings - 10 to 19 ur	Count	13	14	100	117,163	124,583			24
Residential - Multi-Dwellings - 20 to 49 ur	Count	5	14	100	153,328	163,038			24
Residential - Multi-Dwellings - 5 to 9 units		44	14	100	130,576	138,845			24
Residential - Multi-Dwellings - 50+ units	Count	2	14	100	177,576	188,822			24
Residential - Multi-Dwellings- 10 to 19 ur	Count	13	14	100	75,233	79,998			24
Residential - Nursing Home	Count	2	14	42	13,509	7,767			20
Residential - Single Family Dwelling	Count	7,053	14	100	1,524,052	1,620,575			24
Residential - Triplex-Quads	Count	152	14	100	68,837	73,197			24
Schools HAZUS SDURS	Count	9	13	28	10,620	6,542			10
sewage treat	Count	2	34	30	200,000	66,000			12
solid waste facilities	Count	7	6	25	0	0			
substation ca	Count	1	15	25	1,000	275			0
tankfarms	Count	3		-	9,000	0			
transin ca	Length (ft)	39,060	14		9,617	0			C
utilities	Count	1	14		0,017	-			- C
Waste Water HAZUS SDURS	Count	3	2	20	235,764	51,868			12
water trans	Count	6	15		200,104	0 1,000	4,307,499	4,964,528	
air trans	Count	2	15		0	0	1,007,100	-1,00-1,020	0
bridges not in HAZUS	Count	2	8	25	2,000	550			3
Commercial - Personal and Repair Servi		4	15	100	7,840	8,624	i		18
Commercial - Professional/ Technical Se		2	15	100	15,072	16,579	1		18
Commercial - Retail Trade	Count	2	15	100	13,500	14,850			18
Commercial - Wholesale Trade	Count	3	15	100	15,147	16,662			18
Communication HAZUS SDURS	Count	3	16	100	354	389	j		18
Communication_174200_3D0R3	Ount	<u>ા</u>	101	100	304	309			18

West Sacramento South 1

ı	Delta Danda DDC I Major Danda	It ongth (ff)	52,501	15	25	17 225	4,764		1	el el
	Delta_Roads_PBSJ_Major_Roads	Length (ft)		15		17,325				0
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	240,654	15	25	48,131	13,236			6
	Gas_Oil_Production_Fields	Area (Acres)	145	15	0	0				0
	gas_oil_wells	Count	24	15	0	0	0			0
	hc_ambulatory	Count	3	14	37	0	0	1		13
	hc_nursing_res	Count	2	18	100	0	0	1		24
	Hwy_HAZUS_SDURS	Length (ft)	24,906	15	25	8,219	2,260	1		3
	Petroleum Pipelines	Length (ft)	29,561	15	0	6,208	0	1		0
	Rail_Bridge_HAZUS_SDURS	Count	2	8	25	2,000	550	- 1		1
	Rail_HAZUS_SDURS	Length (ft)	17,644	15	25	5,029	1,383	1		1
	Residential - Duplex	Count	7	15	100	5,409	5,752	- 1		24
	Residential - Manuf. Housing	Count	17	15	100	955	991	- 1		24
	Residential - Multi-Dwellings- 10 to 19 u		2	15	100	2,802	2,979	1		24
	Residential - Single Family Dwelling	Count	2,387	15	100	659,724	701,507	I		24
	Schools_HAZUS_SDURS	Count	3	17	100	3,540	3,582	1		18
	substation_ca	Count	1	17	25	1,000	275	ļ		0
	transln_ca	Length (ft)	7,713	15	-	1,899	0	1		0
	US_cell_towers	Count	3	14	-	750	0	794,935	816,905	1
West Sacramento South 2	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,074	7	25	1,014	279			6
	Petroleum Pipelines	Length (ft)	2,538	7	0	533	. 0	279	1,547	0
Woodward_Island	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	28,139	23	25	5,628	1,548			6
	gas_pipeline_kinder_morgan_LS_9	Length (ft)	7,820	23	0	1,642	0			0
	mokelumne_aqueduct_pipe	Length (ft)	23,350	23	-	116,750	9,760			1
	Rail_HAZUS_SDURS	Length (ft)	8,034	4	25	2,290	630	11,938	126,310	1
Wright-Elmwood_Tract	Delta Roads PBSJ Minor Roads	Length (ft)	9,702	16	25	1,940	534			6
_	gas oil wells	Count	2	17	0	0	0			0
	Residential - Multi-Dwellings- 10 to 19 u	Count	1	16	100	81	86			24
	Residential - Multi-Dwellings- 20 to 49 u	Count	1	16	100	27	29			24
	Residential - Single Family Dwelling	Count	4	16	100	1,277	1,357			24
	transin_ca	Length (ft)	53,222	16	-	13,104	0	2,006	16,429	0
Yolo_Bypass	Commercial - Personal and Repair Serv	i Count	2	12	39	4,476	2,930			14
**	Commercial - Professional/ Technical S		1	12	100	9,234	9,142			18
	Commercial - Retail Trade	Count	1	12	42	3,770	2,530			15
	Commercial - Wholesale Trade	Count	4	12	37	20,302	13,064			13
	Delta Roads PBSJ Major Roads	Length (ft)	489	12	25	161	44			6
	Delta Roads PBSJ Minor Roads	Length (ft)	117,305	12	25	23,461	6.452			6
	Gas Oil Production Fields	Area (Acres)	6.636	12	0	0	0			0
	gas oil wells	Count	245	11	o	ol	Ô			0
	Hwy Bridge HAZUS SDURS	Count	2	16	25	4,000	1,100			3
	Hwy HAZUS SDURS	Length (ft)	16,531	12	25	5,455	1,500			3
	Natural Gas Pipeline	Length (ft)	66,804	12	0	12.693	0			0
	Natural Gas Wells	Count	10	9	-	0	0			0
	Petroleum Pipelines	Length (ft)	58,522	12	o	12,290	ŏ	I		ō
•	Rail HAZUS SDURS	Length (ft)	21,229	12	25	6,050	1,664	i		1
	Residential - Multi-Dwellings- 10 to 19 ur		1	12	100	47	49	- 1		24
	Residential - Multi-Dwellings- 20 to 49 ur		1	12	100	8	8	ļ		24
	Residential - Single Family Dwelling	Count	9	12	100	2,246	2,388	i		24
	transin ca	Length (ft)	124,042	12	- 100	30,541	2,000	40.871	134,732	0
Zone 120	Commercial - Retail Trade	Count	2	9	30	1,788	1,082	.5,571	,	11
	Delta Roads PBSJ Major Roads	Length (ft)	30.537	9	25	10.077	2,771	I		6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	55,353	9	25	11,071	3,044	ŀ		6
	Gas Oil Production Fields	Area (Acres)	1,657	9	0	0	3,044	1		
	gas oil wells	Count	37	10	0	0	0			
	1900 OII WOIIO	LOOUIL	Ļ <u>9()</u>	10]		- U ₁	<u> </u>	J	Į.	

						•				
1	Natural Gas Pipeline	Length (ft)	18,811	9	0	6,114	0	1	,	0
	Natural Gas Wells	Count	14	12	- 1	0	0			0
	Residential - Manuf. Housing	Count	19	9	100	1.041	1,077			24
'	Residential - Single Family Dwelling	Count	99	9	44	26,142	13,808			21
	transin ca	Length (ft)	16,408	9	-	4,040	0	21,782	60.272	0
Zone 122	Residential - Single Family Dwelling	Count	2	12	100	375	399	399	375	24
Zone 14	gas oil wells	Count	2	14	0	0	0			0
20110 14	Natural Gas Pipeline	Length (ft)	2.273	19	o	432		٥	432	0
Zone 148	Commercial - Retail Trade	Count	2,2,0	15	100	212	233	<u>-</u>		18
20116 140	Delta Roads PBSJ Major Roads	Length (ft)	354	15	25	117	32			6
	Delta Roads PBSJ Minor Roads	Length (ft)	22,964	15	25	4,593	1,263			6
	gas oil wells	Count	22,004	18	70	0	1,200	1		0
	Hwy_HAZUS_SDURS	Length (ft)	9,687	15	25	3,197	879	1		3
	Residential - Manuf. Housing	Count	10	15	100	549	569	ſ		24
	Residential - Multi-Dwellings- 10 to 19 ur		2	15	100	390	415	l	l	24
	Residential - Single Family Dwelling	Count	42	15	100	8,390	8,921	i	ł	24
	Schools HAZUS SDURS	Count	2	13	33	2,360	1,519	l	l	12
	transin ca	Length (ft)	7,365	15		1,813	1,519	13,831	21,620	0
Zone 155	Delta Roads PBSJ Minor Roads	Length (ft)	543	10		109	30	10,001	21,020	6
Zone 155	transin ca	Length (ft)	769	10	20	189	0	30	298	0
Zone 158 (Smith Tract 2)	Boatlaunch	<u> </u>			400	200	220	30	290	0
Zone 156 (Smith Tract_2)	Commercial - Personal and Repair Servi	Count	3	1 3	100	8,211	3,387			5
	Commercial - Personal and Repair Servi		2	, 3 3		10,608	4,901		i	8
	Commercial - Professional/ Technical Se		2	3	16				}	
	Commercial - Retail Trade Commercial - Wholesale Trade	Count	2	3		17,288	7,417			- 0
	Delta Roads PBSJ Major Roads	Count		3	11 25	15,320	6,151			6
	Delta Roads PBSJ Minor Roads	Length (ft)	6,757 97,442	3	25 25	2,230 19,488	5,359			6
	Hazmat HAZUS SDURS	Count	97,442			19,400	5,359			0
	hc ambulatory	Count	3	2	12					<u>0</u>
•	——————————————————————————————————————	Count	2	<u>-</u>	7					
	hc_nursing_res Hwy Bridge HAZUS SDURS	Count	10	1 2		20,000				3
	Hwy HAZUS SDURS	Length (ft)	7.666	3	25 25	2,530	5,500 696			3
	Residential - Duplex	Count	47	3			6,064			12
		Count	27	3		20,169				
	Residential - Manuf. Housing Residential - Multi-Dwellings- 10 to 19 ur			3		1,337 150	1,294	i		24
	Residential - Multi-Dwellings- 10 to 19 ur Residential - Multi-Dwellings- 20 to 49 ur		2	3	26 26	5.727	1.722			12 12
	Residential - Mutti-Dwellings- 20 to 49 ut		1,372					1		
	Residential - Single Family Dwelling Residential - Triplex-Quads	Count		3	26	285,683	86,419	1	ì	12
	Schools HAZUS SDURS	Count	57	4	26 9	25,777 2,360	7,750 948			12
	utilities	Count	1	3	9	2,360	946	138,486	437,079	0
Zone 160	Delta Roads PBSJ Minor Roads		9.676					130,400	437,079	
Zone 100	Residential - Single Family Dwelling	Length (ft)		7	25 37	1,935	532	7.004	16 400	6
Zone 162		Count	74	/]		14,491	6,472	7,004	16,426	18
ZONE 102	Delta Roads PBSJ Minor Roads	Length (ft)	4,772	12	25	954	262		ļ	6
	Natural Gas Pipeline	Length (ft)	2,642	12	0	502	0	ŀ		0
	Residential - Manuf. Housing	Count	2	12	100	126	131	4 405	- 4	24
7474	Residential - Single Family Dwelling	Count	12	12	100	3,848	4,092	4,485	5,431	24
Zone 171	Boatlaunch	Count	2		100	200	220	j		0
	Commercial - Retail Trade	Count	2	6	20	180	97	ŀ	ļ	7
	Delta Roads PBSJ Major Roads	Length (ft)	11,830	6	25	3,904	1,074	1		6
	Delta_Roads_PB\$J_Minor_Roads	Length (ft)	4,153	6	25	831	228	l		. 6
	Gas_Oil_Production_Fields	Area (Acres)	1,319	6	0	0	0	I	ļ	0
	gas_oil_wells	Count	19	5	0	0	0	i	ļ	0
	Hwy_Bridge_HAZUS_SDURS	Count	7	8	25	14,000	3,850			3

1	Hwy HAZUS SDURS	Length (ft)	5,715	l 6	25	1.886	519	1		3
	Natural Gas Pipeline		20,614			6,700	0			
*		Length (ft)	9,173			2,614	719			1
	Rail_HAZUS_SDURS	Length (ft)				1,424	563	7,270	31,738	16
_		Count	6					7,270	31,730	6
Zone 185	Commercial - Personal and Repair Servi		1	5		2,802	1,402			. 10
	Commercial - Professional/ Technical Se		1	5		8,486	4,807			
		Count	1	5		1,424	728			6
		Length (ft)	100,663	5		20,133	5,536			6
	<u> </u>	Count	1	1	0	0	0			0
		Count	4	8		0	0			9
	Hwy_Bridge_HAZUS_SDURS	Count	. 3	3		6,000	1,650			3
	Hwy_HAZUS_SDURS	Length (ft)	3,863			1,275	351			3
		Count	43			16,425	5,661			14
		Count	5			34,389	8,448			7
		Count	10	5		474	474			24
	Residential - Multi-Dwellings - 50+ units	·	1			24,318	8,382			14
	Residential - Multi-Dwellings- 10 to 19 ur		1	5		795	274			14
	Residential - Multi-Dwellings- 20 to 49 ur		1			4,662	1,607			14
		Count	2	5		8,610	2,115			7
	Residential - Single Family Dwelling	Count	2,231	5		639,921	224,079			14
		Count	7	5	29	3,854	1,328			14
	Schools_HAZUS_SDURS	Count'	1	7	13	1,180	610	267,454	774,747	5
Zone 186	transln_ca	Length (ft)	13,335	10	-	3,283	0	0	3,283	0
Zone 197	Commercial - Professional/ Technical Se	Count	2	15	100	8	9			18
	Commercial - Retail Trade	Count	2	15	100	112	123			18
	Delta Roads PBSJ Major Roads	Length (ft)	4,871	15	25	1,607	442			6
	Delta Roads PBSJ Minor Roads	Length (ft)	45,506	15	25	9,101	2,503			6
	gas oil wells	Count	4	15	0	0	0			0
	Hwy HAZUS SDURS	Length (ft)	35,965	15	25	11,868	3,264			3
	Natural Gas Pipeline	Length (ft)	5,539	15	0	1,800	Ó			0
	rail 1000 nodes	Count	2	9	-	0	0			0
	Residential - Manuf, Housing	Count	24	15	100	1,202	1,247			24
	Residential - Multi-Dwellings- 10 to 19 un	Count	2		100	804	855			. 24
	Residential - Single Family Dwelling	Count	84	15	100	17,638	18,755	27,197	44,141	24
Zone 206	bridges not in HAZUS	Count	3	4	25	3,000	825			3
	Commercial - Entertainment and Recrea		2	6		4,100	2,187			6
	Commercial - Personal and Repair Servi		2			4,190	2,328	I		8
	Commercial - Professional/ Technical Se		1			3,998	2,573	i		14
		Count	1	6		2,090	1,172			8
		Count	2	6		8,074	4,352			7
	Delta Roads PBSJ Major Roads	Length (ft)	14,002			4,621	1,271			6
		Length (ft)	7.511	6		1,502	413			6
		Count	1,011	5		129,800	142,780			0
		Area (Acres)	113			125,500	142,700			0
		Count	9			0	0	1		0
		Count	1			1.755	1,035	j		6
		Count	28			1,755	1,035			0
	mokelumne aqueduct pipe	Length (ft)	4,990			24,950				0
	Oil HAZUS SDURS	Count	4,990	5		24,950	26			0
	Petroleum Pipelines		56.141				20			0
		Length (ft)	50,141	6		11,790	0	1		
		Count	30000	5		0 740				<u> </u>
		Length (ft)	23,649			6,740	1,853	ļ		1
	Residential - Institutional and Dormitory	Count	1 1	6	16	5,637	1,649	1		8

transin_ca	Length (ft)	9,175	6	-1	2,259	0	162,464	214,623	0
	Length (ft)	5,102	7	25	1.020	281			6
			7	o	514	0	ŀ		0
			7	25	5,826	1,602	1,883	7,361	1
	,		13	0	0	o			0
		9		ō	0	o	ı		0
		1,419		. 0	270	0	l		0
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				0	0	0			0
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			4						12
			4						12
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			4				I		8
			4				l		6
			4				i		4
			4				1		6
	Length (ft)	34,426	4			1,893	ŀ		- 6
		3	5			0	ı		- 6
	Length (ft)	388	4				l l		3
		7	4				- 1		
			4	17	17,520	7,323	I		6
	Count	•	1	-	0	0	I		C
	Length (ft)	7,203	4]	0	1,513		l		C
		3	1	. -	0		l		C
	Count		1				I		C
	Length (ft)		4				l		1
	Count	23	4						12
	Count	349	4	100	17,860	17,485	l		24
		3	4	26	9,612	2,890	l		12
Residential - Multi-Dwellings - 20 to 49 ur	Count	3	4	26	3,877,529	1,165,844	į		12
		10	4	26	25,275	7,599	l		12
		3	4	26	6,143	1,847	1		12
Residential - Single Family Dwelling	Count	467	4	26	109,336	33,074	·		12
Residential - Triplex-Quads	Count	23	4	26	9,588	2,883	ļ		12
Waste_Water_HAZUS_SDURS	Count	3	1	20	235,764	51,868	i		12
	Count	5	1	-	0	0	1,352,699	4,458,390	0
Colleges and Universities	Count	2	5	9	26,390	13,411			
			5	14	5,468	2,677	I		5
		4	5	16	8,544		1		6
		2	5	28	8,416	4,768	I		10
Commercial - Professional/ Technical Se		ZI							
	Delta Roads PBSJ Minor Roads Petroleum Pipelines Raii HAZUS SDURS Gas_Oil Production Fields gas_oil wells Natural Gas Pipeline Natural Gas Wells gas_oil wells Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Professional/ Technical Secommercial - Professional/ Technical Secommercial - Professional/ Technical Secommercial - Retail Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads Hwy HAZUS SDURS Residential - Multi-Dwellings- 10 to 19 ur Residential - Multi-Dwellings- 20 to 49 ur Residential - Single Family Dwelling solid waste facilities transln_ca Commercial - Personal and Repair Servi Commercial - Personal Trade Commercial - Professional/ Technical Secommercial - Retail Trade Commercial - Wholesale Trade Delta Roads PBSJ Major Roads Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads hc_ambulatory Hwy_HAZUS_SDURS Industrial - Heavy Industrial - Light intermodal terminal facilities Petroleum Pipelines rail_1000_nodes Rail Facility HAZUS_SDRUS Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 20 to 49 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Multi-Dwellings - 10 to 19 ur Residential - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingle - Fingl	Delta_Roads_PBSJ_Minor_Roads	Delta Roads PBSJ Minor Roads Length (ft) 2,447 Raii HAZUS SDURS Length (ft) 2,447 Raii HAZUS SDURS Length (ft) 20,443 Gas Oil Production Fields Area (Acres) 174 gas oil wells Count 9 Natural Gas Pipeline Length (ft) 1,419 Natural Gas Wells Count 2 gas oil wells Count 1 Residential - Single Family Dwelling Count 3 Residential - Single Family Dwelling Count 2 Commercial - Professional/ Technical Sc Count 2 Commercial - Professional/ Technical Sc Count 2 Commercial - Retail Trade Count 2 Delta Roads PBSJ Major Roads Length (ft) 4,606 Hwy HAZUS SDURS Length (ft) 4,606 Hwy HAZUS SDURS Length (ft) 783 Residential - Multi-Dwellings- 10 to 19 ur Count 2 Residential - Multi-Dwellings- 20 to 49 ur Count 2 Residential - Multi-Dwellings- 20 to 49 ur Count 2 Residential - Multi-Dwellings- 20 to 49 ur Count 2 Residential - Fortal Sc Count 2 Residential - Personal and Repair Servi Count 2 Residential - Personal and Repair Servi Count 3 Commercial - Personal and Repair Servi Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Commercial - Porfessional/ Technical Sc Count 3 Residential - Willi-Dwellings - 10 Residential - Willi-Dwellings - 10 Residential - Willi-Dwellings - 10 Residential - Willi-Dwellings - 10 Residential - Willi-Dwellings - 10 Residential - Willi-Dwellings - 10 Resident	Delta Roads PBSJ Minor Roads	Delta Roads PBSJ Minor Roads Length (ft) 5,102 7 25 Petroleum Pipelines Length (ft) 2,447 7 0 Raii IHAZUS SDURS Length (ft) 2,447 7 0 Raii IHAZUS SDURS Length (ft) 2,447 7 0 Gas Oil Production Fields Area (Acres) 174 13 0 gas oil wells Count 9 13 0 Natural Gas Pipeline Length (ft) 1,419 13 0 Natural Gas Wells Count 2 12 -	Delta Roads PBSJ Minor Roads Length (ft) 5.102 7 25 1.020	Delta Roads PBSJ. Minor Roads Length (ft) 5.102 7 25 1.020 291 Petroleum Pipelines Length (ft) 2.447 7 0 514 0 Rail HAZUS SDURS Length (ft) 2.0443 7 25 5.826 1,602 Gas Oil Production Fields Area (Acres) 174 13 0 0 0 0 Ogas Oil Wells Count 9 13 0 270 0 0 Natural Gas Pipeline Length (ft) 1.419 13 0 270 0 0 Natural Gas Wells Count 1 16 0 0 0 0 0 Gas Oil Wells Count 1 16 0 0 0 0 0 0 0 0 0	Delta Roads PBSJ, Minor Roads Length (ft) 5.102 7 25 1.020 291	Delta Roads PBSJ. Minor Roads Length (ft) 5.102 7 25 1.020 281

1	Commercial - Wholesale Trade	Count	1 4	F .	401	47.64E	0.540			
Ĭ		Count	0.000			17,645	8,540	I		5
l	Delta Roads PBS Major Roads	Length (ft)	2,630			868	239	I		6
l	Delta_Roads_PBSJ_Minor_Roads Hazmat HAZUS SDURS	Length (ft)	18,247			3,649	1,004	J		6
		Count	3			0	0	I		0
	Hwy Bridge HAZUS SDURS	Count	2			4,000	1,100	ı		3
	Hwy_HAZUS_SDURS	Length (ft)	1,608			531	146	l l		3
	Industrial - Food-Drug-Chemicals	Count	2			18,840	8,414	i		8
	Industrial - Heavy	Count	2			7,810	3,385			7
	Natural Gas Pipeline	Length (ft)	875			166	0			0
	Petroleum Pipelines	Length (ft)	80,209			16,844	0			0
	Port_HAZUS_SDURS	Count	2			5,145	0			0
	rail_1000_nodes	Count	4	<u> </u>		0	0			0
	Rail_Facility_HAZUS_SDRUS	Count	2			5,145	1,415			0
	Rail_HAZUS_SDURS	Length (ft)	26,921	5		7,672	2,110	j		1,
	Residential - Duplex	Count	7			1,932	666	1		14
	Residential - Multi-Dwellings- 10 to 19 un		2			372	128	ı		14
	Residential - Multi-Dwellings- 20 to 49 un		2			900	310	ļ		14
	Residential - Single Family Dwelling	Count	39			10,164	3,559	1		14
	transin_ca	Length (ft)	1,579			389	0	60,327	159,062	
Zone 64	Commercial - Professional/ Technical Se		2			1,008	505			8
	Commercial - Retail Trade	Count	2			888	415			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	342			68	19			6
		Area (Acres)	176			0	0			0
	gas_oil_wells	Count	1	1	0	0	0			0
	Hwy_HAZUS_SDURS	Length (ft)	3,245	4		1,071	294			3
	Industrial - Construction	Count	2	4	0.	4,608	2,256	1		13
		Length (ft)	2,175		,	413	0	1		0
		Count	3			214	209	I		24
	<u> </u>	Count	29	4	26	7,789	2,356	6,054	16,059	12
Zone 65	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	1,749	5	25	350	96	96	350	6
Zone 69		Length (ft)	4,234	8	25	847	233			6
		Area (Acres)	18	8	0	0	0			0
	gas_oil_wells	Count	2	9	0	0	0	233	847	0
Zone 74	Commercial - Retail Trade	Count	2	6	23	4	2			8
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	17,859	6	25	5,893	1,621			6
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	40,610	6	25	8,122	2,234	1		6
	Gas_Oil_Production_Fields	Area (Acres)	1,144	6	Ó	0	0			0
	gas_oil_wells	Count	52	7	0	0	Ó			0
	Hwy_HAZUS_SDURS	Length (ft)	7,891	6	25	2,604	716			3
		Length (ft)	29,192	. 6	0	5,546	0			0
	Natural Gas Wells	Count	1	8	-	0	0			0
·	Petroleum Pipelines	Length (ft)	8,302	6	O	1,743	ō			0
		Length (ft)	8,167	6	25	2,328	640	ļ		1
		Count	2			546	250			18
	Residential - Multi-Dwellings- 10 to 19 un		2	6		642	294	1		18
	Residential - Multi-Dwellings- 20 to 49 un		2	6		108	49	1		18
	Residential - Single Family Dwelling	Count	42			13,039	5,823	ı		18
		Count	2	6	39	1,065	487	ı		18
		Length (ft)	42,297	6		10,414	0	12,116	52.055	0
Zone 75		Count	3	10		3,000	825	.2,1,3	52,000	3
						0,000		- 1		
		Count	2	91	34	1 232	772	1		101
	Commercial - Retail Trade	Count Lenath (ft)	2 425	9		1,232	772			12 6
	Commercial - Retail Trade Delta_Roads_PBSJ_Major_Roads	Count Length (ft) Length (ft)	2 425 35,574	9 9 9		1,232 140 7,115	772 39 1,957			12 6

	gas oil wells	Count	5	9	0	ol	0	1	!	
	Hwy HAZUS SDURS	Length (ft)	8,838	9		2,917	802			
	Residential - Manuf. Housing	Count	4			188	194			
	Residential - Multi-Dwellings- 10 to 19 ur		2			150	86			
	Residential - Single Family Dwelling	Count	59			17,103	9,648		,	
	solid waste facilities	Count	2			0	9,048	14,323	31,844	
Zone 77	Commercial - Professional/ Technical Se		2			528	264	14,020	31,044	
zone 11	Commercial - Professional/ recrimical Se	Count	2			412	193	l l	ļ	⊢—
	Delta Roads PBSJ Major Roads	Length (ft)	8,434	4		2,783	765	l l	ļ	
	Delta Roads PBSJ Minor Roads	Length (ft)	2,294	4	25	459	126		ļ	
	Rail HAZUS SDURS	Length (ft)	4,346	4		1,239	341	1	ļ	
	Residential - Multi-Dwellings- 10 to 19 ur		4,340	4		1,239	5		ļ	
	Residential - Single Family Dwelling	Count	22	4	26	6.800	2,057	- 1		
	transin ca	Length (ft)	4,318	4		1,063	2,057	3,751	13,302	
one 78	bridges not in HAZUS	Count	4,316			5,000		3,731	13,302	
one 10	Commercial - Professional/ Technical Se		2	0		940	1,375		J	
	Commercial - Retail Trade		2		41 26		626		,	
		Count				388	226		1	
	Delta Roads PBSJ Major Roads	Length (ft)	10,243	7		3,380	930		ļ	
	Delta Roads PBSJ Minor Roads	Length (ft)	22,798		25	4,560	1,254			
	gas_oil_wells	Count	2 0 407	8		0	0			—
	Hwy HAZUS SDURS	Length (ft)	9,497	7	201	3,134	862		1	
	Natural Gas Pipeline	Length (ft)	51		0	17	0		ļ	
	Rail_HAZUS_SDURS	Length (ft)	6,016		25	1,715	472			
	Residential - Manuf. Housing	Count	2	7		123	126			
	Residential - Multi-Dwellings- 10 to 19 ur		2		43	72	37			
	Residential - Single Family Dwelling	Count	46		39	13,296	6,379			
	transin_ca	Length (ft)	4,101	7	1	1,010	0	12,285	33,633	
one 79	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	32,699	6		6,540	1,798			
	gas_oil_wells	Count	7	6		0	0			ļ
	Hwy_Bridge_HAZUS_SDURS	Count	2	5		4,000	1,100	i]	ļ
	Natural Gas Pipeline	Length (ft)	7,316	6		1,390	0			
	Residential - Single Family Dwelling	Count	4	6		1,068	477	3,375	12,998	
one 80	Delta_Roads_PBSJ_Major_Roads	Length (ft)	2,594	5		856	235		ļ	
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	35,451	5		7,090	1,950		1	
	Gas_Oil_Production_Fields	Area (Acres)	739	5		0	0		ļ	
	gas_oil_wells	Count	9	5	-	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	2	6		4,000	1,100			
	Natural Gas Pipeline	Length (ft)	6,721	5		1,277	0	1		
	Natural Gas Wells	Count	1	4		0	0	1	ſ	
	Petroleum Pipelines	Length (ft)	1,030	5		216	0	l		
	Residential - Single Family Dwelling	Count	3	5		749	296		ſ	
	transin_ca	Length (ft)	2,625	5	and the second second	646	0	3,582	14,835	
one 81	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	24,222	8		4,844	1,332			
	gas_oil_wells	Count	9	8		, 0	0		Ī	
	Hwy_Bridge_HAZUS_SDURS	Count	2	3		4,000	1,100		ſ	
	Natural Gas Pipeline	Length (ft)	6,491	8		1,233	0		ſ	
		Length (ft)	6,491	8	0	1,233	0		Ī	
	Natural Gas Wells	Count	2	11		0	Ö		Ī	
	Residential - Manuf. Housing	Count	2	8	100	87	89]	Ţ	
	Residential - Single Family Dwelling	Count	12	8	39	3,006	1,442	3,964	14,404	
one 82	Delta_Roads_PBSJ_Major_Roads	Length (ft)	3,109	. 8	25	1,026	282			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	703	8		141	39		f	
	Hwy HAZUS SDURS	Length (ft)	3,110	8	25	1,026	282		ŀ	

	Natural Gas Pipeline	Length (ft)	10,955	8	0	2,081	0			
	Natural Gas Pipeline	Length (ft)	10,955	8	0	2,081	0			
	transin_ca	Length (ft)	2,387	8	-	769	0	603	7,124	
Zone 90	Commercial - Professional/ Technical S	Se Count	2	4	28	688	378			
	Commercial - Retail Trade	Count	2	4	18	3,620	1,792			
	Delta_Roads_PBSJ_Major_Roads	Length (ft)	9,390	4	25	3,099	852			
	Delta_Roads_PBSJ_Minor_Roads	Length (ft)	16,336	4	25	3,267	898			
	Hazmat_HAZUS_SDURS	Count	38	4	-	0	0			
	Hwy_Bridge_HAZUS_SDURS	Count	4	3	25	8,000	2,200			
	Hwy_HAZUS_SDURS	Length (ft)	4,141	4	25	1,367	376			
	Industrial - Food-Drug-Chemicals	Count	2	4	22	20,970	9,227			
	Oil_HAZUS_SDURS	Count	1	3	20	118	26		İ	
	Petroleum Pipelines	Length (ft)	119,148	4	0	25,021	0			
	Rail_HAZUS_SDURS	Length (ft)	9,484	4	25	2,703	743			
	Residential - Single Family Dwelling	Count	44	4	29	12,179	4,265			
	solid_waste_facilities	Count	4	2	25	0	0			
	tankfarms	Count	2	1	-	6,000	0			
	transin_ca	Length (ft)	7,135	4	-	1,757	0	20,757	88,788	

Table 7- 5b: Estimate Summary of Asset Cost Damage by Island - 100-year Flood- 2050

	Total Daniels Cont	T-4-1 A ()()	
Island Name	Total Repair Costs (\$1,000)	Total Asset Value (\$1,000)	Percent of Total Value Damaged (%)
Bacon_Island	31,587	43,917	72
Bethel_Island	418,770	439,732	95
Bishop_Tract	66,163	141,119	47
Bixler_Tract	855	1,933	44
Boggs_Tract	1,073,264	2,926,466	
Bouldin_Island	14,359	25,898	77.17
Brack_Tract	6,118	21,860	28
Bradford_Island	11,554	21,630	53
Brannan-Andrus Island	185,145	267,914	69
Browns_Island	0	0	0
Byron_Tract 1	72,935	227,636	32
Byron_Tract 2	11,173	25,651	44
Byron_Tract 3	19,821	43,815	45
Cache_Haas_Tract 1	15,472	65,884	23
Cache_Haas_Tract 2	1,997	3,426	58
Canal Ranch	32,559	51,348	63
Chipps_Island	0	0	0
Clifton Court Forebay Water	1,185	4,278	28
Coney_Island	23,296	21,921	106
Deadhorse Island	281	998	28
Decker_Island	0	1,536	0
Discovery_Bay	674,201	1,147,184	59
Egbert_Tract	17,620	58,085	30
Elk_Grove 1	1,377,509	2,521,857	55
Empire_Tract	10,855	30,527	36
Fabian_Tract	60,099	115,456	52
Fay Island	6	23	28
Glanville_Tract	19,696	59,584	33
Gliole_District	2,908	8,019	36
Grand Island	199,123	253,979	78
Hastings_Tract 1	7	6	110
Hastings_Tract 2	5,301	13,585	39
Holland_Land	1,525	3,932	39
Holland_Tract	6,982	15,788	44
Honker Bay_Club	474	2,643	18
Hotchkiss_Tract 1	173,339	199,506	87
Hotchkiss_Tract 2	496	2,253	22
Jersey_Island	3,266	24,615	13
Jones_Tract-Upper_and_Lower	92,171	521,071	18
Kasson_District	6,237	8,993	69
King_Island	145,102	170,332	85
Libby_McNeil_Tract 1	15,129	27,884	54
Libby_McNeil_Tract 2 Liberte Island	1,164	1,848	63
	2,518	14,599	17
Lincoln_Village_Tract	607,484	1,262,743	48
Liston_District	46,928	125,352	37
Little Holland Tract	0	0	0
Little_Egbert□_Tract	27,988	41,697	67
Lower_Roberts_Island	1,053	2,933	36
Mandeville_Island	1,433	5,213	28
McCormack_Williamson_Tract	1,075	4,093	26
McDonald_Tract	21,141	36,246	58
McMullin_Ranch-River_Junction Tract	24,450	62,527	39

Merritt Island 33,990 47,169 Middle Roberts Island 94,952 566,147 Netherlands 1 1,652 3,941 Netherlands 2 127,286 196,852 Netherlands 2 127,286 196,852 New Hope Tract 93,645 142,314 Onwood Tract 55,377 251,174 Palm, Tract 6,973 22,563 Paradise Junction 55,027 170,391 Pescadero 131,673 360,710 Peter Pocket 470 2,139 Pico Naglee, Tract 392,123 681,746 Pierson, Tract 83,204 119,291 Pitsburg 41,445 109,053 Prospect, Island 409 1,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128 RD,128	54	8,559	4,637	Medford Island
Middle Roberts Island	70			
Netherlands 1	17			
Netherlands 2	42			
New Hope Tract	65			
Drwood Tract 55,377 251,174 Palm Tract 6,973 22,563 Paradise Junction 55,027 170,391 Pescadero 131,673 360,710 Pescadero 131,673 360,710 Peter Pocket 470 2,139 Picro Naglee_Tract 392,123 681,746 Pierson Tract 83,204 119,291 Pittsburg 41,445 109,053 Prospect Island 1,050 1,788 Quimby_Island 409 1,126 RD 17 (Mossdale) 487,796 1,122,396 Rindge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 23,783 73,032 Ringge_Tract 30,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 61,494 83,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,785 63,7				
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Peter Pocket	31			
Peter Pocket	32			
Pico Naglee_Tract 392,123 681,746 Pierson_Tract 83,204 119,291 Pitisburg 41,445 109,053 Prospect_Island 1,050 1,788 Quimby_Island 409 1,126 RD 17 (Mossdale) 487,796 1,122,396 Rindge_Tract 23,783 73,032 Rio Blanco_Tract 1,212 9,988 Rioberts_Island 330 300 Roberts_Island 30,185 61,494 Roberts_Island 30,185 61,494 Sacramento_Pocket Area 16,074,486 28,874,041 Sargent_Barnhart_Tract 1 24,900 100,740 Sargent_Barnhart_Tract 2 991,743 1,973,377 Sargent_Barnhart_Tract 3 30,486 48,200 Schafter-Pintail Tract 2,863 6,808 Sherman_Island 31,400 127,951 Shim Rea_Tract 643,055 1,110,507 Shin, Kee_Tract 1,212 12,325 Simmons-Wheeler Island 426 756 <t< td=""><td>37</td><td></td><td></td><td></td></t<>	37			
Pierson_Tract	22			
Pittsburg	58		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
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RD 17 (Mossdale)	59			
Rindge Tract	36			
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Sacramento Pocket Area 16,074,486 28,874,041 Sargent Barnhart Tract 1 24,900 100,740 Sargent Barnhart Tract 2 991,743 1,973,377 Sargent Barnhart Tract 3 30,486 48,200 Schafter-Pintail Tract 2,363 6,808 Sherman Island 31,400 127,951 Shima Tract 643,055 1,110,507 Shin Kee Tract 1,212 12,325 Simmons-Wheeler Island 426 756 SM-123 11,749 39,396 SM-124 328,715 719,256 SM-132 558 525 SM-133 0 0 SM-134 0 0 SM-198 2,595 5,383 SM-199 1,178 2,341 SM-202 300 531 SM-39 5,303 20,349 SM-40 428 1,556 SM-41 505 3,852 SM-42 2,75 1,753 SM-48 31,290<	49			
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Sargent_Barnhart_Tract 2 991,743 1,973,377 Sargent_Barnhart_Tract 3 30,486 48,200 Schafter-Pintail Tract 2,363 6,808 Sherman_Island 31,400 127,951 Shima_Tract 643,055 1,110,507 Shim, Kee_Tract 1,212 12,325 Simmons-Wheeler_Island 426 756 SM-123 11,749 39,396 SM-124 328,715 719,256 SM-132 558 525 SM-133 0 0 SM-198 2,595 5,383 SM-199 1,178 2,341 SM-39 5,303 20,349 SM-40 428 1,556 SM-41 505 3,852 SM-42 275 1,753 SM-44 2,234 7,267 SM-48 31,290 56,869 SM-49 50,992 91,100 SM-51 0 0 SM-52 2,307 7,403 <t< td=""><td>25</td><td></td><td></td><td>Sargent_Barnhart_Tract 1</td></t<>	25			Sargent_Barnhart_Tract 1
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SM-57 6,301 21,774 SM-58 211 768 SM-59 673 2,091	30			
SM-58 211 768 SM-59 673 2,091	27			
SM-59 673 2,091	29			
	28			
	32	2,091		
SM-60 24,216 47,556	51		24,216	
SM-84 9,361 19,901	47			
SM-85-Grizzly_Island 4,464 20,272	22			SM-85-Grizzly_Island

Smith_Tract			39
Stark Tract	551,116 1,876		
Staten Island	12,812		
Stewart Tract	17,981	53,788	
Sutter Island	15,774	26,334	
Terminous Tract 1	20,244	66,440	
Terminous Tract 2	193,264	260,806	
Terminous Tract 3	2,988		
Twitchell Island	14,925		
Tyler Island 2	2,7,458		
Union Island 1	111,624	254,549	
Union Island 2	64	723	
Union Island 3	1,050		
Union Island 4	378		
Upper_Roberts_Island	34,831	126,303	
Van Sickle Island	33,861	100,810	
Veale Tract 1	13,476	21,937	
Veale Tract 2	41,015	120,408	
Venice Island	3,705	13,308	
Victoria Island	37,778		
Walnut Grove	74,612	57,078 80,533	
Walthal Tract			
Water Body	34,346 0	69,632 0	
Water Canal	0	224	
Water Zone 1			
Water Zone 2	382,896	686,306	
	662,976	1,698,178	
Water Zone 3	105,970	273,193	
Water Zone 4	85,486	207,446	
Water Zone 5	100,128	141,826	
Webb_Tract	182	416	
West Sacramento North	4,307,499	4,964,528	
West Sacramento South 1	794,935	816,905	
West Sacramento South 2	279	1,547	
Woodward_Island	11,938	126,310	
Wright-Elmwood_Tract	2,006	16,429	
Yolo_Bypass	40,871	134,732	
Zone 120	21,782	60,272	
Zone 122	399	375	
Zone 14	0	432	
Zone 148	13,831	21,620	
Zone 155	30	298	
Zone 158 (Smith Tract_2)	138,486		
Zone 160	7,004	16,426	
Zone 162	4,485	5,431	83
Zone 171	7,270	31,738	
Zone 185	267,454	774,747	
Zone 186	0	3,283	
Zone 197	27,197	44,141	
Zone 206	162,464	214,623	
Zone 207	1,883	7,361	26
Zone 214	0	270	0
Zone 216	621	1,051	59
Zone 31	432	968	45
Zone 33	218	489	45
Zone 36	3,401	12,194	28
Zone 37	1,352,699	4,458,390	30
Zone 38	60,327	159,062	38
Zone 64	6,054	16,059	38
Zone 65	96	350	28
Zone 69	233	847	28
Zone 74	12,116	52,055	23

Zone 75	14,323	31,844	45
Zone 77	3,751	13,302	28
Zone 78	12,285	33,633	37
Zone 79	3,375	12,998	26
Zone 80	3,582	14,835	24
Zone 81	3,964	14,404	28
Zone 82	603	7,124	8
Zone 90	20,757	88,788	23
TOTAL (\$1,000)	35,521,316	67,091,312	53

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Table 7 - 6a: Estimate of Asset Cost Damaged by Island- (MHHW) - Scour- 2050

	1 2	3	4	5	(7	8	9	10	11	12	13
isiand Name	Asset Type	Structure Type	Inventory Unit	Quantity (Expected 2050)	Percent Damage	Total Asset Value (2050)	MHHW Inundation Repair Costs (\$1,000) (2050)	Differential Repair Costs (\$1,000) (2050)	MHHW Inundation Repair Costs - By Island (\$1,000) (2050)	Differential Costs for Point Assets - By Island (\$1,000) (2050)	1,000ft Increment Costs for Point Assets - By Island (\$1,000) (2050)	Differential Costs for Linear Assets By Island (\$1,000) (2050)
Bacon_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	31,753	25.0	6,350	1,588	4,763				
	gas oil wells	Point	Count	5	0.0	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	i			
	NG_Pipelines	Linear	Length (ft)	12,115	0.0	3,695	0	3,695	i			
	Residential - Institional Dormitory	Point	Count	3	100.0	11,178	9,948	1,230	11,536	1,230	19	8,458
Bethel_Island	Boatlaunch	Point	Count	6	100.0	337	300					
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	164.797	25.0	18,945	4,736		1			
	gas oil wells	Point	Count	16	0.0	0			1			
	gas_oil-production_fields	Point	Area (acres	479	0.0	0		<u> </u>	l	l		
	NG Pipelines	Linear	Length (ft)	10.446	0.0	1,985	0	1.985				
	NG wells	Point	Length (ft)	1 2	0.0	0	Ĭ	- ',000			1	
		Point	Count	383	100.0	l.	13,092	1,618	İ			
	Residential - Single Family Dwelling	Point	Count	888	100.0	182,220	162,175		1		1	
	utilities	Point	Count	1	0.0	, O	, . , . ,	-				
	water trans	Point	Count	2	0.0	Ō	-		180,303	21,700	476	16,193
Bishop_Tract		Point	Count	1	100.0	112	100	12				, , , , , , ,
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	27,037	25.0	5.407	1,352	4,055				
	gas oil wells	Point	Count	1	0.0	0	- 1,002	- 1,000				
		Point	Count	5	43.6	1,037	403	634				
	Transmission Line	Linear	Length (ft)	13,405	0.0	3,300	700	3,300	1,854	647	20	7,356
Bixler Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	240	25.0	30	7	22		071	20	1,000
		Point	Count	3	0.0	30						
	gas_oil-production_fields	Point	Area (acres	80	0.0	Ö						
		Point	Count	4	25.8	903	207	696	215	696	109	22
Bouldin Island		Point	Count	1	22.0	4,028	789		2.10	000	100	
		Point	Count	1	100.0	630	561	69			1	
		Linear	Linear (ft)	1,506	25.0	497	124	373				
		Linear	Length (ft)	42,545	25.0	8,509	2,127	6,382				
		Point	Count	14	0.0	0,000	2,121	0,302				
		Point	Area (acres	84	0.0	<u> </u>						
		Linear	Length (ft)	18,409	25.0	6.075	1,519	4,556			ĺ	
		Point	Count	10,403	0.0	0,075	1,519	4,000	5,120	3.309	1,421	11,310
Brack_Tract		Linear	Length (ft)	12,468	25.0	1,266	316	949	0,120	0,000	1,721	11,010
		Point	Count	12,400	0.0	1,200	310	949	-			
		Linear	Length (ft)	3.223	0.0	741	- 0	741				
		Point	Count	3,223	100.0	285	254	31				
		Point	Count	 A	100.0	449	400	49	970	81	l .	1,691
Bradford Island		Linear	Length (ft)	39,652	25.0	7,930	1,983	5.948	970	01	 	1,091
aaiora_iaiana		Point	Count	39,652	0.0	7,930	1,983	5,948			1	
	gas oil-production fields	Point	Area (acres	642	0.0	<u> </u>		<u> </u>			1	
			Length (ft)	3,733	0.0	1,082	0	1.082			l	
		Point	Count	3,133	0.0	1,082		1,082			[
			Count	6		221	197	24			l	
			Count	18	100.0	3,596		396	E 200	400	١ .	7.000
Brannan-Andrus Island				10		3,386	3,200	390	5,380	420	8	7,030
Diamian-Andrus Island		Point	Count	2	0.0	0		-			ĺ	
		Point	Count	10	100.0	899	800	99			ĺ	
		Point	Count	200070	100.0	3,065	2,728	337			1	
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	22,070	25.0	7,283	1,821	5,462			1	
	Delta Roads PBSJ Minor Roads	Linear Point	Length (ft) Count	224,386 88	25.0 0.0	37,516	9,379	28,137				

												•
	hc_hospital	Point	Count	2	100.0	0	-					
	hwy_Bridge_HAZUS_SDURS	Point	Count	3	0.0	4,494	0	4,494				
	hwy_HAZUS_SDURS	Linear	Length (ft)	34,137	25.0	11,265	2,816	8,449				
	NG_Pipelines	Linear	Length (ft)	35,601	0.0	8,366	<u>o</u> l	8,366				
	NG_wells	Point	Count	48	0.0	0						
	Residential - Manuf. Housing	Point	Count	280	100.0	10,928	9,726	1,202				
	Residential - Multi Dwellings - 10 to 19	Point	Count	200	100.0	820	730	90				
*	Residential - Single Family Dwelling	Point	Count	300	100.0	48,611	43,264	5,347	i			1
	Solid_Waste_Facilities	Point	Count	1	25.0	0	·					
	Transmission Line	Linear	Length (ft)	2,649	0.0	652	-,	652				
	water_trans	Point	Count	3	0.0	0	*		71,263	11,570	370	51,066
Browns_Island	Hazmat_HAZUS_SDURS	Point	Count	2	0.0	0	•	-	0	0		0
Byron_Tract 1	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,195	25.0	1,276	319	957	ı			1
	hwy_HAZUS_SDURS	Linear	Length (ft)	5,459	25.0	1,801	450	1,351				l
	Residential - Manuf, Housing	Point	Count	2	100.0	83	74	9	I			
	Residential - Single Family Dwelling	Point	Count	5	100.0	1,037	923	114	ł		ľ	
	Transmission Line	Linear	Length (ft)	10,359	0.0	3,335		3,335	1,766	123	10	5,643
Byron_Tract 2	Bridges_not_in_HAZUS	Point	Count	5	0.0	4,494	0	4,494				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	12,789	25.0	2,506	627	1,880	1			1
	Residential - Manuf. Housing	Point	Count	3	100.0	106	95	12	l			
	Residential - Single Family Dwelling	Point	Count	17	37.0	3,937	1,297	2,641	i			1
	Transmission Line	Linear	Length (ft)	25,247	0.0	8,129	-	8,129	2,018	7,147	57	10,009
Cache_Haas_Tract 1	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	58,539	25.0	11,708	2,927	8,781				
	gas_oil_wells	Point	Count	13	0.0	0	-		I			1
	gas_oil-production_fields	Point	Area (acres	670	0.0	Ó	-		l			
	NG Pipelines	Linear	Length (ft)	878	0.0	167	0	167	ŀ			,
	NG wells	Point	Count	1	0.0	0	-	-	ľ			
	Transmission Line	Linear	Length (ft)	10,877	0.0	3,502		3,502	2,927	0	l 0	12,449
Cache_Haas_Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	8,532	25.0	1,706	427	1,280				
<u> </u>	gas oil wells	Point	Count	15	0.0	0		.,	1			
	gas oil-production fields	Point	Area (acres	475	0.0	0	-					
	NG wells	Point	Count	1	0.0	0			I			
	Residential - Manuf. Housing	Point	Count	1	100.0	19	17	2	I			
	Residential - Single Family Dwelling	Point	Count	4	29.3	872	227	645				
	Transmission Line	Linear	Length (ft)	567	0.0	183		183	671	647	112	1,462
Canal Ranch		Point	Count	3	35.0	2,447	762	1,685			 	1,102
	Commercial - Retail Trade	Point	Count	3	20.0	1,608	286	1,322				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	9,202	25.0	911	228	683			•	
	gas_oil_wells	Point	Count	5,232	0.0	0						
	gas oil-production fields	Point	Area (acres	171	0.0							
	hwy Bridge HAZUS SDURS	Point	Count	3	0.0	2,247	<u> </u>	2,247				
	NG Pipelines	Linear	Length (ft)	1,066	0.0	202	0	202	1,276	5,254	366	886
Chipps Island	gas oil wells	Point	Count	.,coo	0.0	202		202	1,2,0	0,204	300	000
Clifton Court Forebay Water	Boatlaunch	Point	Count	, 2	100.0	112	100	12	 Ч		· ·	
	Residential - Single Family Dwelling	Point	Count		16.4	378	55	323				
	Transmission Line	Linear	Length (ft)	9,729	0.0	3,132	35	3,132	155	335	21	3,132
Coney_Island	Residential - Manuf. Housing	Point	Count	9,729	100.0	3,132	305	3,132	100	333	<u> </u>	3,132
00.107_1010110	Residential - Single Family Dwelling	Point	Count	60	100.0	14,448	12.859	1,589	12 151	1 607	396	
Deadhorse Island							12,009	1,569	13,164	1,627	396	<u> </u>
Deaution se istanti	gas_oil_wells	Point Point	Count	100	0.0				i			
	gas_oil-production_fields	Point	Area (acres	199	0.0				i			
	NG Pipelines	Linear	Length (ft)	3,862	0.0	734	. 0	734	I		l	i i
		Point	Count	1	100.0 100.0	71.	6		,_,			
Decker Island	Residential - Single Family Dwelling	Point	Count	1 0.045	0.0	191	170	21	176	22		734
	NG_Pipelines	Linear	Length (ft)	8,045		1,528	0	1,528	0	0	0	1,528
Egbert_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	21,889	25.0	2,049	512	1,536	- 1			l ''''
	gas_oil_wells	Point	Count	24	0.0	0	- ,	-	1			
	gas_oil-production_fields	Point	Area (acres	689	0.0	0	-		1			
	NG_Pipelines	Linear	Length (ft)	3,937	0.0	945	0	945	į			
	NG_wells	Point	Count	. 2	0.0	0						
	Residential - Single Family Dwelling	Point	Count	. 7	37.0	1,479	487	992	l			i
	Transmission Line	Linear	Length (ft)	2,861	0.0	921	-	921	999	992	20	3,402
Empire Tract	Boatlaunch	Point	Count	4	100.0	112	100	12				

	Delta Roads PBSJ Minor Roads	Linons	Length (ft)	114,462	25.0	7.399	1.850	5 540	1			!
	——————————————————————————————————————	Linear Point	Count	114,402	0.0	7,399	1,000	5,549	1	1		
	gas_oil_wells Residential - Manuf. Housing	Point	Count	10		476	423	52				
	Residential - Single Family Dwelling	Point	Count	7	100.0	787	700	87	3,073	151	7	5.549
Fablan Tract	Boatlaunch	Point	Count		100.0	112	100	12	3,073	1911		3,349
ranian_nact	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	117,050	25.0	6,848	1,712	5,136	l l	i		
	gas oil wells	Point	Count	117,030	0.0	0,040	1,712	5,130		- 1		
	NG Pipelines	Linear	Length (ft)	1,818	0.0	345	, ,	345		l		
	Residential - Manuf. Housing	Point	Count	1,010	100.0	752	670	83				
	Residential - Single Family Dwelling	Point	Count	28	32.6	4,676	1,358	3,318		i		
	Transmission Line	Linear	Length (ft)	9,643	0.0	2,374	1,338	2,374	3,839	3,413	103	7,855
Fay Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	113	25.0	22	6	2,374	3,039	3,413	103	17
Glanville Tract	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	2,036	25.0	672	168	504	٩	Y		17
Clanvine_11act	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,554	25.0	491	123	368		1		
	gas oil wells	Point	Count	2,004	0.0	491	123	300	ŀ			
	gas oil-production fields	Point	Area (acres	85	0.0	O	——— —					
	Residential - Manuf. Housing	Point	Count	2	100.0	29	26	3	1			
							40		i	•		
	Residential - Single Family Dwelling	Point	Count Count	2	28,5 29,3	13 443	115	10 327	435	341	76	872
Grand Island	Boatlaunch	Point	Count		100.0	112	100		435	341		8/2
Granta Islania	Delta_Roads_PBSJ_Major_Roads	Linear		3,301	25.0	1,089		12	l			
	Delta Roads PBSJ Minor Roads	Linear	Linear (ft)	127,834	25.0	25,567	272	817	ŀ	l		
	gas_oil_wells	Point	Length (ft) Count	127,834	0.0	∠0,00/	6,392	19,175		i	İ	
	gas oil-production fields	Point	Area (acres	761	0.0		- -					
	hwy_Bridge_HAZUS_SDURS	Point	Count	701	0.0	4 404	- 0	4 404		i		
	hwy HAZUS SDURS	Linear		65,548	25.0	4,494 21,631	5,408	4,494 16,223				
	Industrial - Light	Point	Length (ft) Count	05,540	100.0	4,989	4,440		1			
	NG Pipelines	Linear	Length (ft)	11,501	0.0	2,185		549 2.185	1			
	NG wells	Point		11,501	0.0	2,100		2,165				
	Residential - Manuf. Housing	Point	Count Count	22	100.0	863	768	- OF	i			
	Residential - Multi Dwellings - 10 to 19		Count	1	100.0	1,654	1,472	95 182			1	
	Residential - Multi Dwellings - 50+ units		Count		100.0	439	391	48				
	Residential - Single Family Dwelling	Point	Count	217	100.0	43,307	38,543			1		
	Transmission Line	Linear	Length (ft)	13,186	0.0	3,247	30,343	4,764 3,247		ŀ		
	US Cell Towers	Point	Count	13,100	0.0	281		281	57,786	10,426	710	44 647
Hastings_Tract 1	Commercial - Retail Trade	Point	Count	1	100.0	201	-	201	57,760	10,426	718	41,647
nastings_nact i	gas oil-production fields	Point	Area (acres	45	0.0		3			ا	0	_
Hastings_Tract 2	Delta Roads PBSJ Minor Roads					0.000	545	4 545	3	0	U	U
nastings_nact z	gas oil wells	Linear Point	Length (ft) Count	10,300 27	25.0	2,060	515	1,545	1	i		
	gas oil-production fields	Point	Area (acres	360	0.0	<u> </u>	<u>-</u>	-	1	1		
	NG wells	Point	Count	350	0.0	0	<u>-</u> -	-	j	1		
	Residential - Single Family Dwelling	Point		, 6	32.6	9						
	Transmission Line	Linear	Count Length (ft)	4,432	0.0	1,147 1,427	333	814	848	244		
Holland Tract	Delta_Roads_PBSJ_Minor_Roads			41,432			0.070	1,427	848	814	20	2,972
Tioliana_Tract	gas oil wells	Linear	Length (ft)	41,410	25.0	8,282	2,070	6,211				
	hwy_Bridge_HAZUS_SDURS	Point	Count		0.0			2017				
	Residential - Manuf. Housing	Point Point	Count Count	2	100.0	2,247	0	2,247	1	ŀ		
	Residential - Single Family Dwelling	Point	Count	5	100.0	72 1,184	64 1,054	130	2 400	0.005	5.0	
Honker_Bay_Club	gas oil-production fields						1,054	130	3,188	2,385	50	6,211
nonker_bay_club	NG Pipelines		Area (acres	47	0.0	0			i	- 1	1	
		Linear	Length (ft)	4,395	0.0	835	0	835		- 1	1	
	Petroleum Pipelines Residential - Single Family Dwelling		Length (ft) Count	4,793	0.0 32.6	4,793	0	4,793	470	اري	1	ا ۔۔۔ ہ
Hotchkiss Tract 1				3		593	172	421	172	421	36	5,628
INCOMESTING I	Boatlaunch		Count	50,000	100.0	112	100	12	1	l		
	Delta_Roads_PBSJ_Minor_Roads gas_oil_wells	Linear	Length (ft)	56,069	25.0	6,807	1,702	5,106	1	ļ		
	**************************************		Count	14	0.0	<u>0</u>	-		1	ļ		
	gas oil-production fields		Area (acres	46	0.0	0 0 1			1	1		
	hwy_Bridge_HAZUS_SDURS	Point	Count (#)	40.453	0.0	2,247	0	2,247	1	1	1	
	NG_Pipelines NG_wells		Length (ft)	12,158	0.0	2,310	0	2,310	1	l	1	
			Count	2	0.0	U			I			
	Residential - Manuf. Housing Residential - Single Family Dwelling		Count	114	100.0	4,544	4,045	500	1	ŀ	İ	j
			Count	363	43.6	74,141	28,786	45,355	24.555	,		
	Hansinission rine	Linear	Length (ft)	14,068	0.0	4,529	- 1	4,529	34,632	48,114	938	11,945

Hotchkiss Tract 2	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	6,887	25.0	669	167	502				
	gas oil wells		Count	0,007	0.0	009	107		l	ļ	ļ	
	gas oil-production fields		Area (acres	616	0.0	0						
	NG_Pipelines		Length (ft)	2,371	0.0	450	0	450	167	اه	0	95
Jersey_Island	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	30,773	25.0	6,155	1,539	4,616			<u> </u>	307
orooy_iolana	gas oil wells		Count	12	0.0	0,100	1,000	4,010			1	
	gas oil-production fields		Area (acres	536	0.0	0						
	NG Pipelines		Length (ft)	5,422	0.0	3,388	-	3,388				
	NG_wells		Count	3	0.0	0,000		0,000				
	Residential - Manuf. Housing		Count	1	100.0	39	35	4				
	Residential - Single Family Dwelling		Count	3	100.0	651	579	72				
	Solid_Waste_Facilities		Count	1	25.0	001				,		
	Transmission Line		Length (ft)	15,919	0.0	5,125		5,125	2,153	76	1	13,130
Jones_Tract-Upper_and_Lowe			Count	2	0.0	1,124		1,124	2,100	- '		10,100
oonoo_naar appar_ana_aan	Delta Roads PBSJ Minor Roads		Length (ft)	84,103	25.0	16,400	4,100	12,300				
	gas oil wells		Count	12	0.0	10,400	4,100	12,000				
	gas oil-production fields		Area (acres	106	0.0				1		•	
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	5,018	0.0	1,054		11,054				
	mokelumne aqueduct pipe		Length (ft)	14,985	0.0	74,924	5,694	11,004	İ	1	l	
	NG Pipelines		Length (ft)	15,033	0.0	24,202	3,094	24,202		1		•
	NG wells		Count	10,000	0.0	0		£7,2V2		1	l	
	rail 1000 nodes		Length (ft)	1	0.0	39	ń	39		- 1	l	
	Rail HAZUS SDURS		Length (ft)	5,679	100.0	1,618	8,000	0		ı	l	
	Residential - Manuf. Housing		Count	4	100.0	114	101	13	1			
	Residential - Single Family Dwelling		Count	5	100.0	678	604	75	18.499	1,211	24	37,595
King_island	Boatlaunch		Count	4	100.0	112	100	12	10,433	1,211	24	37,330
Ming_istatio	Commercial - Entertainment and Recre		Count	4	100.0	2,081	1,852	229				
	Commercial - Retail Trade		Count	- 4	100.0	15,924		1.752				
	Delta Roads PBSJ Minor Roads			123,482	25.0	6,769	14,172					
	gas_oil_wells		Length (ft)	123,482	0.0	6,769	1,692	5,077				
	gas oil-production fields		Count	150	70.0	<u> </u>				1	1	
	hwy Bridge HAZUS SDURS		Area (acres	152	0.0	4 404				1		
	NG wells		Count	8	0.0	4,494	0	4,494		ļ .	ŀ	
			Count			5 704					ŀ	
	Residential - Manuf. Housing		Count	154	100.0	5,784	5,148	636		Į.		
	Residential - Single Family Dwelling water trans		Count	63	100.0 0.0	9,198	8,186	1,012				
Libby McNeil Tract 1			Count	4		- 0			31,150	8,135	161	5,077
LIDDY_WCNell_Tract 1	Communication_HAZUS_SDURS		Count	2	0.0	265	0	265		1	1	
	Delta Roads PBSJ Major Roads		Linear (ft)	5,110	25.0	1,686	422	1,265		1	1	
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	14,141	25.0	2,036	509	1,527	1	1		
	gas_oil_wells		Count	/	0.0	. 0				- 1		
	gas_oil-production_fields		Area (acres	143	0.0	0				1	1	
	Residential - Manuf. Housing		Count	3	100.0	137	122	15	i			
	Residential - Single Family Dwelling		Count	57	32.6	11,563	3,357	8,205	4,409	8,485	232	2,791
Libby_McNeil_Tract 2	Boatlaunch		Count	2	100.0	112	100	12				
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	480	25.0	69	17	52	1	1	J	
	gas_oil-production_fields		Area (acres	42	0.0	0	- `		ı] .	
	Residential - Single Family Dwelling		Count	6	25.8	1,161	266	895	383	907	19	52
Liberte Island	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	11,521	25.0	2,304	576	1,728				
	gas_oil_wells		Count	17	0.0	0	-			ı	ł	
	gas_oil-production_fields		Area (acres	470	0.0	0	-		1	1		
	hwy_Bridge_HAZUS_SDURS		Count	1	0.0	2,247	0	2,247	1	ı	l	
	NG_Pipelines		ength (ft)	21,290	0.0	4,045	0	4,045	576	2,247	165	5,773
Lincoln_Village_Tract	Residential - Multi Dwellings - 10 to 19		Count	1	100.0	11	10	1				
	Residential - Multi Dwellings - 50+ units		Count	1	100.0	9	. 8	1	1	ı		
	Residential - Single Family Dwelling	Point (Count	1	16.4	170	25	145	43	147	6	C
Lisbon_District	Delta_Roads_PBSJ_Minor_Roads	Linear L	_ength (ft)	2,648	25.0	455	114	341				
	Rail_HAZUS_SDURS		ength (ft)	2,361	25.0	673	168	504	1	1	i	
	Residential - Multi Dwellings - 10 to 19		Count	2	28.5	11	3	8	1	1	1	
	Residential - Single Family Dwelling		Count	2	29.3	333	87	246	371	254	7	846
Little Holland Tract	gas_oil_wells		Count	2	0.0	0				 		040
	gas_oil-production_fields		Area (acres	89	0.0	ő			اه	٥	o	n
										VI		

	gas_oil_wells	Point 0	Count	18	0.0	0	- [- ,	I	1	1	
	gas_oil-production_fields		Area (acres	412	0.0	0	-		1	i		
	NG_Pipelines		ength (ft)	5,710	0.0	1,370	0	1,370			ŀ	
	Résidential - Single Family Dwelling		Count	7	100.0	1,489	1,325	164	1,749	164	3	2,640
ower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	11,403	25.0	931	233	698				
	gas oil wells		Count	1	0.0	0	-	•	1			
	Residential - Manuf. Housing		Count	3	44.0	67	26	41				
	Residential - Single Family Dwelling		Count	3	39.1	425	148	277	407	318	7	698
/landeville_lsland	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	26,063	25.0	5,212	1,303	3,909				
	gas_oil_wells	Point (Count	4	0.0	0	- :		1,303	0	0	3,909
IcCormack_Williamson_Tract	Communication_HAZUS_SDURS	Point (Count	2	0.0	265	0	265				
	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	9,930	25.0	1,986	496	1,489				
	gas_oil_wells	Point 0	Count	16	0.0	0	-	· •				
	gas_oil-production_fields		Area (acres	802	0.0	0	-	-		l l		
	NG_Pipelines	Linear L	ength (ft)	4,699	0.0	893	0	893	496	265	51	2,38
lcDonald_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	52,771	25.0	10,554	2,639	7,916				
	gas_oil_wells	Point (Count	48	0.0	0	•					
	gas_oil-production_fields	Point A	Area (acres	602	0.0	0	•	•		1		
	NG_Pipelines		ength (ft)	5,236	0.0	1,597	0	1,597	1	1		
	Residential - Institional Dormitory		Count	1	100.0	5,344	4,756	588	7,395	588	9	9,51
edford_Island	Delta Roads PBSJ Minor Roads	Linear L	ength (ft)	28,314	25.0	5,663	1,416	4,247				
=	Residential - Institional Dormitory		Count	7	100.0	1,973	1,756	217	3,172	217	3	4,24
lerritt Island	Delta Roads PBSJ Major Roads		inear (ft)	2,454	25.0	810	202	607	-,			.,
	Delta Roads PBSJ Minor Roads		ength (ft)	34,820	25.0	6,019	1,505	4,514	1			
	gas oil wells		Count	5	0.0	0,010	1,000	7,017		j		
	gas oil-production fields		Area (acres	44	0.0	ő				- 1		
	Residential - Manuf. Housing		Count	2	100.0	142	126	16		1		
			Count	7 2	28.5	97	25	72		- 1		
	Residential - Single Family Dwelling		Coùnt	32	29.3	6,312	1,643	4,669	3,501	4,757	116	5,12
iddle Roberts Island	Boatlaunch			32	100.0				5,501	4,101	110	5,12
iggle_izonei (a_iaigiid	Commercial - Personal and Repair Serv		Count Count	3	39.0	337 691	300 240	37 451		l		
				11 004					. [1	1	
	Delta Roads PBSJ Major Roads		inear (ft)	11,881	25.0	3,921	980	2,940	J	I	ļ	
	Delta Roads PBSJ Minor Roads		ength (ft)	107,709	25.0	21,542	5,385	16,156	ŀ		J	
	gas_oil_wells		Count	22	0.0	- 0			J		J	
	gas_oil-production_fields		Area (acres	620	0.0	4 700			J		J	
	gas pipeline kinder morgan LS 9		ength (ft)	8,231	0.0	1,728	0	11,728	I		J	
			Count	1 45 45	0.0	2,247	<u>0</u>	2,247	1		J	
	hwy_HAZUS_SDURS		ength (ft)	18,587	25.0	6,133	1,533	4,600	1		J	
	mokelumne_aqueduct_pipe		ength (ft)	22,309	0.0	111,543	0	111,543]	Į.	J	
	NG_Pipelines		ength (ft)	13,010	0.0	2,472	0	2,472			1	
	NG_wells		Count *	5	0.0	0	<u>-</u> -		1		1	
	Petroleum Pipelines		ength (ft)	3,641	0.0	3,641	0	3,641		1		
	Rail_HAZUS_SDURS		ength (ft)	7,982	25.0	2,275	569	1,706			1	
			Count	18	100.0	691	615	76			i	
	Residential - Single Family Dwelling		Count	51	48.6	8,538	3,695	4,843		l		
	Solid_Waste_Facilities		Count	1	25.0	0	-	-	I	1	ŀ	
	Transmission Line		ength (ft)	40,597	0.0	9,995		9,995	13,317	7,655	459	154,782
etherlands 2	air_trans	Point C	Count	1	0.0	0	- 1					
	Delta_Roads_PBSJ_Major_Roads		inear (ft)	2,041	25.0	673	168	505	I	i	İ	
	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	116,484	25.0	23,297	5,824	17,472	I	ı		
			Count	19	0.0	o	-	' -	- 1	ı	1	
	gas_oil-production_fields	Point A	rea (acres	24	0.0	Ö	-		1			
	hwy_Bridge_HAZUS_SDURS		Count	1	0.0	2,247	Ö	2,247	1	ı	1	
	hwy_HAZUS_SDURS		ength (ft)	6,756	25.0	2,229	557	1,672	1	ı	1	
	rail 1000 nodes		ength (ft)	1	0.0	0		-,,2	l]	- 1	
			ength (ft)	2,051	25.0	584	146	438	1			
			Count		100.0	90	80	10	l l	1	1	
	Residential - Multi Dwellings - 10 to 19		Count		28.5	81	21	60	l	ı		
			Count	36	29.3	7,211	1,877	5,334	8,674	7,651	294	20,08
w_Hope_Tract			Count	4	100.0	225	200	25	0,074	7,001	274	20,000
			inear (ft)	2,043	25.0	674	169			ı		
			ength (ft)	21,196	25.0	2.298	169 574	506 1,723	i			

	gas_oil_wells	Point	Count	20	0.0	O.			1	1	1	
	gas_oil-production_fields	Point	Area (acres	648	0.0	ŏ						
	hwy Bridge HAZUS SDURS	Point	Count	2	0.0	2,247	ol	2,247				
	hwy HAZUS SDURS	Linear	Length (ft)	1.023	25.0	337	84	253				
	NG_Pipelines	Linear	Length (ft)	11,534	0.0	2,191	0	2,191				
	NG wells	Point	Count	2	0.0	0	-1	-	Ī		l	
	Residential - Manuf, Housing	Point	Count	52	100.0	2,055	1,829	226		ľ		
	Residential - Single Family Dwelling	Point	Count	23	37.0	3,627	1,194	2,432	4,051	4,930	76	4,67
Orwood_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	12,925	25.0	2,585	646	1,939				
_	gas oil wells	Point	Count	3	0.0	ō	-					
	gas pipeline kinder morgan LS 9	Linear	Length (ft)	14,841	0.0	3,116	0	13,116			1	
	mokelumne aqueduct pipe	Linear	Length (ft)	40,546	0.0	202.729	15.407	Ö	ŀ		i	
	NG_Pipelines	Linear	Length (ft)	6,470	0.0	1,811	0	1,811			1	
	Residential - Manuf. Housing	Point	Count	1	100.0	25	22	3	l l			
	Residential - Single Family Dwelling	Point	Count	81	100.0	23,245	20,688	2,557				
	Transmission Line	Linear	Length (ft)	8,083	0.0	2,602		2,602	36,764	2,560	39	9,46
Palm_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	24,442	25.0	4,888	1,222	3,666				-1
	gas oil wells	Point	Count	1	0.0	1,000	,,	0,000	-			
	gas_oil-production_fields	Point	Area (acres	100	0.0			-		i	i	
	NG Pipelines	Linear	Length (ft)	10,249	0.0	2,870	0	2,870	1	i	ı	
	Rail_HAZUS_SDURS	Linear	Length (ft)	12,628	25.0	3,599	900	2,670			1	
	Residential - Manuf. Housing	Point	Count	12,020	100.0	53	47	2,099	I	1	1	
	Residential - Single Family Dwelling	Point	Count	9	100.0	2,220	1,976	244	l	1	1	
	Transmission Line	Linear	Length (ft)	5,170	0.0	1,665	1,370	1,665	4,145	250	8	10.90
Peter Pocket	gas oil wells	Point	Count	3,170	0.0	7,000		1,000	7,140	230	٩	10,90
i etel i ocket	gas oil-production fields	Point	Area (acres	407	0.0	\lambda		———————————————————————————————————————	Į.	- 1	- 1	
	NG wells	Point	Count	2	0.0	0				i	1	
	Residential - Single Family Dwelling	Point	Count	1		235	43	191		ı		
	Transmission Line	Linear	Length (ft)	865	0.0	279	43	279	43	191		27
Pico_Naglee_Tract									43	191	1	27
rico_Nagiee_, i act	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	9,806	25.0	3,236	809	2,427				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	13,345	25.0	1,554	389	1,166				
	gas_oil_wells	Point	Count	2 2 2 2	0.0	1 201				1		
	NG_Pipelines	Linear	Length (ft)	8,919	0.0	1,694	0	1,694		1		
	Residential - Manuf. Housing	Point	Count	2	100.0	135	120	15		1		
	Residential - Single Family Dwelling	Point	Count	33	25.8	8,395	1,924	6,471		1		
	Transmission Line utilities	Linear	Length (ft)	1,083	0.0	267		267				
Diameter Tuesday		Point	Count	1		0			3,242	6,486	831	5,55
Pierson_Tract	Communication_HAZUS_SDURS	Point	Count	4	100.0	530	472	58				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	8,242	25,0	2,720	680	2,040				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	64,520	25.0	9,719	2,430	7,290			ŀ	
	Fire Stations HAZUS SDURS	Point	Count	2	10.0	1,591	142	1,449		İ		
	gas_oil_wells	Point	Count	. 8	0.0	0	•	-		İ		
	gas_oil-production_fields	Point	Area (acres	109	0.0	0		-				
	hwy_Bridge_HAZUS_SDURS	Point	Count	3	0.0	4,494	0	4,494				
	hwy_HAZUS_SDURS	Linear	Length (ft)	5,832	25.0	1,924	481	1,443			1	
	Residential - Manuf. Housing	Point	Count	7	100.0	318	283	35	1		ı	
	Residential - Single Family Dwelling	Point	Count	72	48.6	11,449	4,955	6,494	i		ı	
	Schools_HAZUS_SDURS	Point	Count	3	7.0	1,989	124	1,865]	1	
	Transmission Line	Linear	Length (ft)	2,764	0.0	681	-	681	9,566	14,396	126	11,45
Pittsburg	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	1,044	25.0	110	28	83				
	NG_Pipelines	Linear	Length (ft)	3,070	0.0	583	0	583			l	
	Petroleum Pipelines	Linear	Length (ft)	3,752	0.0	3,751	0	3,751			l	
	Port_HAŽUS_SDURS	Linear	Length (ft)	1	0.0	2,572	Ó	2,572			1	
	rail_1000_nodes	Linear	Length (ft)	2	0.0	, 0	•	-	i		-	
	Rail_HAZUS_SDURS	Linear	Length (ft)	10,235	25.0	2,917	729	2,188			1	
	Residential - Manuf. Housing	Point	Count	2	100.0	63	56`	7		ı	1	
	Residential - Multi Dwellings - 10 to 19	Point	Count	2	28.5	1,027	260	766		ı		
	Residential - Multi Dwellings - 50+ units	Point	Count	2	28.5	533	135	397			1	
	Residential - Single Family Dwelling	Point	Count	53	29.3	11,931	3,106	8,825	i	1	1	
	substation_ca	Point	Count	1	25.0	1,124	250	874	j		1	
	Transmission Line	Linear	Length (ft)	24,177	0.0	5,953		5,953	4,564	10,870	300	15,13
												,

	gas oil wells	Point C	Count	12	0.0	0.	T	-	1	1	1	
	gas oil-production fields		rea (acres	301	0.0	ō						
			Count	1	22.5	1	0	1	*			
	Residential - Single Family Dwelling		Count	2	29.3	502	131	372	401	372	10	81
Quimby_Island	Bridges_not_in_HAZUS	Point C	Count	1	0.0	1,124	0	1,124				
	gas_oil_wells	Point C	Count	1	0.0	0	-	-				
	Residential - Single Family Dwelling	Point C	Count	1	100.0	94	84	10	84	1,134	90	
Rindge_Tract	Delta Roads PBSJ Minor Roads	Linear L	ength (ft)	334,872	25.0	17,001	4,250	12,751				
	gas_oil_wells	Point C	Count	9	0.0	, 0	-	-	1			
	NG_wells	Point C	ount	4	0.0	0	-	-	1			
	Residential - Manuf. Housing	Point C	ount	8	100.0	373	332	41	1			
	Residential - Single Family Dwelling	Point C	Count	16	100.0	2,400	2,136	264	1			
	US_Cell_Towers	Point C	ount	1	0.0	281	-	281	6,718	586	10	12,75
Rio_Blanco_Tract	Delta Roads PBSJ Minor Roads	Linear L	ength (ft)	2,927	25.0	585	146	439				
	gas oil wells	Point C	count	1	0.0	0	-					
	hwy_Bridge_HAZUS_SDURS	Point C	Count	1	0.0	2,247	0	2,247				
			ength (ft)	496	25.0	163	41	123				
	Transmission Line		ength (ft)	6,826	0.0	1,681	•	1,681	187	2,247	167	2.24
Roberts_Island	Boatlaunch		ount	3	100.0	112	100	12	100	12	91	
Rough_and_Ready_Island	air trans		Count	1	0.0	0						
<u> </u>	Commercial - Entertainment and Recre		ount	1	18.0	566	91	476		1		
	Commercial - Personal and Repair Sen		Count	1	22.0	1,054	206	848		1	1	
	Commercial - Wholesale Trade		Count	2	19.0	5,178	876	4,302		1		
	Delta Roads PBSJ Major Roads		inear (ft)	4,691	25.0	1,548	387	1,161			1	
	Delta Roads PBSJ Minor Roads		ength (ft)	45,756	25.0	9,151	2,288	6,863			1	
	gas oil wells		ount	10,700	0.0	3,101	2,200	0,000		· ·	i	
			ount	10	15.0	13,111	1,750	11,361				
			ount	10	0.0	13,111	1,750	11,301				
	Industrial - Heavy		ount	7	26.0	1,408	326	1,082				
	Petroleum Pipelines		ength (ft)	7,384	0.0	7,384	320	7,384	1			
	rail 1000 nodes		ength (ft)	7,304	0.0	7,304		7,304				
	Rail_HAZUS_SDURS			20,358	25.0	5,802	1,450	4,351				
	Residential - Manuf. Housing		ength (ft)	20,336	100.0				1			
	Residential - Maridi. Housing Residential - Single Family Dwelling		ount ount	11	37.0	260 1,660	231 546	29 1,113	8,151	10.010	40.070	40.70
yer Island									0,131	19,210	16,673	19,75
yei isiatiu	Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads		inear (ft)	1,851	25.0	611	153	458	i			
	gas oil wells		ength (ft)	44,231 10	25.0 0.0	8,846	2,212	6,635	- 1			
	gas_oil-production_fields			46	0.0	<u> </u>		-				
			rea (acres	46		0.047			1			
	hwy_Bridge_HAZUS_SDURS		ount		0.0	2,247		2,247	1			
	hwy_HAZUS_SDURS		ength (ft)	44,661	25.0	14,738	3,684	11,053	1			
	Residential - Manuf. Housing		ount	2	100.0 100.0	108	96	12	10.500	0.004		
organi Bornhari Trast 2	Residential - Single Family Dwelling		ount	23		4,926	4,384	542	10,529	2,801	37	18,14
argent_Barnhart_Tract 2	air_trans		ount		0.0	0	<u>:</u> }	-			1	
	Commercial - Medical Office Clinic		ount	1	20.0	870	155	715		1	1	
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	92,847	25.0	18,569	4,642	13,927		ı	1	
	gas_pipeline_kinder_morgan_LS_9		ength (ft)	5,566	0.0	1,169	0	11,169		ŀ	Ì	
	hc_ambulatory		ount	1	11.0	0		-				
	mokelumne_aqueduct_pipe		ength (ft)	16,472	0.0	82,357	0	82,357			·	
	Petroleum Pipelines		ength (ft)	6	0.0	6	0	6				
			ount	6	100.0	448	399	49				
			ount	1	48.0	717	306	411				
			ount	1	48.0	10,311	4,405	5,906	1	I		
	Residential - Single Family Dwelling		ount	1,044	100.0	264,536	235,436	29,100	1	1		
			ount	1	15.0	663	89	574	1	1	1	
			ount	1	25.0	1,124	250	874	į	1	1	
	Transmission Line		ength (ft)	7,750	0.0	1,908	-1	1,908	245,682	37,629	1,026	99,36
argent_Barnhart_Tract 3	Commercial - Entertainment and Recre		ount	7	9.0	6,351	509	5,842				
	Commercial - Personal and Repair Serv		ount	2	9.0	1,108	89	1,019	1		l	
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	1,859	25.0	245	61	184	1		l	
	Residential - Multi Dwellings - 10 to 19		ount	2	15.5	112	16	97	1		l	
	Residential - Multi Dwellings - 50+ units	Point C	oùnt	2	15.5	407	56	351	i	1		
	Residential - Single Family Dwelling	Point C	ount	35	16.4							

Schafter-Pintail Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	26,277	25.0	2,459	615	1,844				
	gas_oil_wells	Point	Count	1	0.0	0	-	-				
	Residential - Single Family Dwelling	Point	Count '	3	43.6	1,042	404	637	1,019	637	72	1,84
Sherman_Island	Boatlaunch	Point	Count	5	100.0	337	300	37				
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,522	25.0	502	125	376				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	94,036	25.0	13,827	3,457	10,370	ļ.			
	gas_oil_wells	Point	Count	31	0.0	0						
	gas_oil-production_fields	Point	Area (acres	530	0.0	0			1			
	hwy_HAZUS_SDURS	Linear	Length (ft)	19,829	25.0	6,543	1,636	4,907	1			
	NG_Pipelines	Linear	Length (ft)	65,495	0.0	21,613	0	21,613	1			
	NG_wells	Point	Count	3	0.0	0	4 000	450		1	·	
	Residential - Manuf. Housing	Point	Count	36	100.0	1,380	1,228	152				
	Residential - Multi Dwellings - 10 to 19 Residential - Single Family Dwelling	Point	Count Count		100.0	94 4,712	84 4,194	10 518				
	Transmission Line	Linear		29 21,392	0.0	6,888	4,194	6,888	44.004	718	20	44.47
Phima Track			Length (ft)				10		11,024	/18	39	44,15
Shima_Tract	Delta_Roads_PBSJ_Minor_Roads Transmission Line	Linear	Length (ft)	1,003	25.0 0.0	193	48	145	40		0	
Shin Kas Treat		Linear	Length (ft)	17,639		4,343	74	4,343	48		U	4,48
Shin_Kee_Tract	Delta_Roads_PBSJ_Minor_Roads gas_oil_wells	Linear Point	Length (ft)	1,485	25.0 0.0	297 0	74	223	1			
	Transmission Line	Lînear	Count Length (ft)	2,074	0.0	511		511	74	ار	^	73
Simmons-Wheeler Island	Residential - Single Family Dwelling	Point	Count	2,014	32.6	472	137	335	137	335	21	73
SM-123	Delta Roads PBSJ Minor Roads	Linear		13,084	25.0	1,224	306	918	131	335	- 41	
JIVI- 123	hwy_Bridge_HAZUS_SDURS	Point	Length (ft) Count	13,084	0.0	2,247	306	2,247	1	ł	1	
	Petroleum Pipelines	Linear	Length (ft)	7	0.0	2,247	0	2,247	ļ	1	1	
	Residential - Single Family Dwelling	Point	Count	3	20.8	401	74	327				
	Transmission Line	Linear	Length (ft)	313	0.0	77	- 74	77	380	2,574	117	1,00
SM-124	Delta Roads PBSJ Major Roads	Linear	Linear (ft)	725	25.0	239	60	179	300	2,374		1,00
2141-17-4	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	13,035	25.0	1.829	457	1,372			l	
	gas oil wells	Point	Count	13,033	0.0	1,029	401	1,372			ŀ	
	Government - General Services	Point	Count		12.0	1,598	171	1,427				
	NG Pipelines	Linear	Length (ft)	1,966	0.0	373	- '/'	373				
	Petroleum Pipelines	Linear	Length (ft)	2,638	0.0	2,637	<u>0</u>	2,637				
	rail 1000 nodes	Linear	Length (ft)	2,030	0.0	2,037	<u> </u>	2,037				
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,058	25.0	586	147	440				
	Residential - Manuf. Housing	Point	Count	2,000	100.0	86	77	9				
		Point	Count	2	28.5	535	136	399				
	Residential - Multi Dwellings - 50+ units		Count	2	28.5	735	186	548				
	Residential - Single Family Dwelling	Point	Count	193	29.3	38,280	9,965	28,315	1			
	Sewage_Treatment	Point	Count	3	15.0	294,945	39,375	4,867	1		1	
	Transmission Line	Linear	Length (ft)	3,814	0.0	939		939	50,573	35,566	983	5,94
SM-132	gas_oil_wells	Point	Count	1	0.0	0			····			
	Residential - Single Family Dwelling	Point '	Count	2	43.6	396	154	242	154	242	480	
SM-133	gas oil wells	Point	Count	9	0.0	0	-	•				
	gas_oil-production_fields	Point	Area (acres	204	0.0	0		-	0	0	ol	
SM-134	gas_oil_wells	Point	Count	1	0.0	0	- 1	-		····		
	gas_oil-production_fields	Point	Area (acres	1	0.0	Ö		-	О	o	o	
SM-198	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	857	25.0	132	33	99				
	gas_oil_wells	Point	Count	3	0.0	· ol		-				
	NG_Pipelines	Linear	Length (ft)	4,304	0.0	818	0	818	1			
	Petroleum Pipelines	Linear	Length (ft)	5,048	0.0	5,048	0	5,048				
	Rail_HAZUS_SDURS	Linear	Length (ft)	422	25.0	120	30	90	l			
	Residential - Multi Dwellings - 10 to 19	Point	Count	2	45.5	34	14	20			J	
	Residential - Single Family Dwelling	Póint	Count	6	43.6	1,062	412	650	489	670	440	6,0
M-199	Communication_HAZUS_SDURS	Point	Count	2	100.0	265	236	29		1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,450	25.0	533	133	400	Ī	I		
		Point`	Count	2	43.0	22	9	14	Į.	1		
	Residential - Single Family Dwelling	Point	Count	3	39.1	742	258	483	636	526	13	40
M-202	Residential - Single Family Dwelling	Point	Count	2	32.6	371	108	263	108	263	25	
M-39	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,424	25,0	1,455	364	1,091			1	
		Linear	Length (ft)	2,256	0.0	555		555	364	0	o	1,64
6M-40	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,779	25.0	1,556	389	1,167	389	0	0	1,16
SM-41	Commercial - Professional and Technic	Point	Count	1	35.0	2	- 1	2	· · · · · · · · · · · · · · · · · · ·			.,

1	Commercial - Retail Trade	Point C	Count		20.0	37	71	30	ī	1	•	
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	218	25.0	43	11	33	İ			
	Petroleum Pipelines		ength (ft)	9,239	0.0	9,239	''	9,239	- 1			
	Rail_HAZUS_SDURS		ength (ft)	5,521	25.0	1,573	393	1,180	411	32	2	10,451
SM-42	substation ca		Count	0,021	25.0	1,124	250	874	711	32		10,451
3)VI-42	Transmission Line		ength (ft)	3,060	0.0	753	250	753	250	874	189	753
SM-43	gas oil wells			3,000	0.0	753	-	155	250	0/4	109	/50
3141-43			Count	80								
	gas_oil-production_fields Residential - Single Family Dwelling		Area (acres	80	0.0 37.0	375	124	252	124	252	30	,
011.44				10.051					124	252	30	
SM-44	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	10,951	25.0	1,691	423	1,268	1			
			Count	4	25.8	998	229	769				
	Transmission Line		ength (ft)	2,711	0.0	667		667	651	769	9,062	1,936
SM-46	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	2,339	25.0	468	117	351	117	0	0	351
SM-47	Solid_Waste_Facilities		Count	1	25.0	0	-	-	0	0	0	C
SM-48	Commercial - Entertainment and Recre		Count	1	12.0	808	86	722				
	Commercial - Professional and Technic	Point C	Count	1	22.0	942	184	757				
	Commercial - Retail Trade		Count	2	16.0	16,752	2,385	14,366				
	gas_oil_wells	Point C	Count	2	0.0	0	-					
	Petroleum Pipelines		ength (ft)	20,676	0.0	20,675	0	20,675	1			
	Rail_HAZUS_SDURS	Linear L	ength (ft)	9,923	25.0	2,828	707	2,121	3,363	15,845	1,818	22,796
SM-49	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	3,423	25.0	528	132	396				
	Petroleum Pipelines		ength (ft)	2,421	0.0	2,421	Ö	2,421	i	1	ł	
	Rail_HAZUS_SDURS	Linear L	ength (ft)	4,396	25.0	1,253	313	940	l	1	l	
	Residential - Single Family Dwelling	Point C	Count	3	29.3	816	212	603	658	603	7,110	3,757
SM-51	gas_oil-production_fields	Point A	rea (acres	3	0.0	0		-	0	0	0	· C
SM-52	Delta Roads PBSJ Minor Roads	Linear L	ength (ft)	2,395	25.0	370	92	277				
	gas oil wells		Count	6	0.0	0		-		- 1		
	gas oil-production fields		rea (acres	170	0.0	0		-		l		
			Count	2	32.0	4	- 1	3		į		
	Residential - Single Family Dwelling		Count	2	32.6	674	196	478	289	482	113	277
SM-53	Commercial - Retail Trade		Count	1	18.0	16	3	13				<u> </u>
	Delta Roads PBSJ Minor Roads		ength (ft)	53	25.0	11		8				
			Count	1	0.0		<u>-</u> -					
	gas oil-production fields		rea (acres	96	0.0	ő				- 1		
			Count	1	22.5		0	7	5	14	1	я
SM-54	Delta Roads PBSJ Minor Roads		ength (ft)	2.228	25.0	344	86	258	· ·		·····	
·····	gas oil wells		Count	2,220	0.0	344		230				
	Rail HAZUS SDURS		ength (ft)	1,918	25.0	546	137	410	223	0	ام	668
SM-55	Delta Roads PBSJ Minor Roads		enath (ft)	18,625	25.0	2,876	719	2,157	220			000
J 55	NG Pipelines		ength (ft)	4,433	0.0	842		842			į –	
	Petroleum Pipelines		ength (ft)	4,261	0.0	4,260	ő	4,260	İ			
			Count	7,201	39.1	592	206	386	925	386	1,064	7,259
SM-56	Delta Roads PBSJ Minor Roads		ength (ft)	7,016	25.0	1,083	271	812	323	300	1,004	7,200
0 00	gas oil wells		Count	7,010	0.0	1,000		012				
	NG_Pipelines		ength (ft)	4,638	0.0	881		881				
	Petroleum Pipelines		ength (ft)	3,101	0.0	3,100	<u> </u>	3,100	1			
			Count	3,101	29.3	864	225	639	496	639	180	4,794
SM-57	Delta Roads PBSJ Minor Roads		ength (ft)	5,907	25.0	912	228	684	490	628	100	4,794
			engin (ii) Count	5,907	0.0	2,247	228	2,247	į.	i	i	
	NG Pipelines			536	0.0	102			l	1	1	
	Transmission Line		ength (ft) ength (ft)	5,522	0.0	1,360	. 0	102 1,360	228	2 247	050	0.445
SM-58				3,841	25.0		400			2,247	950	2,145
SM-59			ength (ft)			768	192	576	192	U	0	576
GIN-05			ount	5	0.0	0			İ	l		
			rea (acres	201	0.0	0				<u>.</u> l	_[
014.60			ength (ft)	632	25.0	208	52	156	52	0	0	156
SM-60	Commercial - Entertainment and Recre		ount	2	12.0	1,492	159	1,333		7	T	
	Commercial - Professional and Technic		ount	2	22.0	2,108	413	1,695	į	į	I	
			ount	2	16.0	753	107	646	ŀ	1	l	
			ength (ft)	1,043	25.0	161	40	121			Į .	
			Count	. 2	0.0	`2,247	0	2,247	720	5,921	722	121
SM-84	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	52,725	25.0	8,142	2,036	6,107				

	gas oil walls	Point C	Count	11	0.0	Ó			1		1	
	gas_oil_wells gas_oil-production_fields		Area (acres	10	0.0	0		——		1		
	Residential - Single Family Dwelling		Count	10	39.1	2,202	767	1,435	2,802	1,435	96	6,10
M-85-Grizzly Island	Delta Roads PBSJ Minor Roads			54,921	25.0	8,481	2,120	6,361	2,002	1,400	30	0,10
w-65-Grizziy_isiand	gas oil wells		.ength (ft) Count	34,921	0.0	0,401	2,120	0,301				
	gas_oil_wells gas_oil-production_fields		Area (acres	188	0.0	0						
	NG Pipelines		ength (ft)	28,158	0.0	5,350	-	5,350		1		
	Petroleum Pipelines		ength (ft)	2,326	0.0	2,326	0	2,326		- 1		
	Residential - Single Family Dwelling		Count	2,320	32.6	1,530	444	1,086	2,565	1,086	13,951	14,03
with Trant				3	16.4	172	25	1,000	2,365	147	14	14,00
mith_Tract	Residential - Single Family Dwelling		Count	4.400					20	147	141	
taten_Island	Delta Roads PBSJ Major Roads		inear (ft)	4,422	25.0	1,459	365	1,094	1	- 1		
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	45,950	25.0	3,211	803	2,408				
	gas_oil_wells		Count	20	0.0	0				- 1		
	gas_oil-production_fields		Area (acres	1,092	0.0	0				l	i	
	NG_Pipelines		ength (ft)	14,654	0.0	3,810	O O	3,810	ı			
	NG_wells		Count	3	0.0	0			Ī			
	Residential - Manuf. Housing		Count	12	100.0	411	366	45				
	Residential - Single Family Dwelling		Count	6	100:0	647	576	71	2,110	116	75	7,31
itter Island	Delta_Roads_PBSJ_Major_Roads		inear (ft)	3,515	25.0	1,160	290	870	ł	I		
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	61,390	25.0	12,278	3,069	9,208		I		
	gas_oil_wells		Count	5	0.0	0	•	-		I		
	hwy_HAZUS_SDURS	Linear L	ength (ft)	5,146	25.0	1,698	424	1,273	j	I		
	Residential - Manuf. Housing	Point C	Count	2	100.0	39	35	4	1			
	Residential - Multi Dwellings - 10 to 19	Point C	Count	1	45.5	336	136	200	1	I		
	Residential - Multi Dwellings - 50+ units	Point C	Count	1	45.5	89	36	53				
	Residential - Single Family Dwelling	Point C	Counit	33	43.6	6,757	2,624	4,134	6,615	4,391	793	11,3
erminous_Tract 1	Delta Roads PBSJ Minor Roads	Linear L	ength (ft)	5,050	25.0	266	66	199				
_	gas oil wells		Count	2	0.0	0	-					
	gas_oil-production_fields	Point A	rea (acres	28	0.0	0		-	1			
	hwy HAZUS SDURS		ength (ft)	764	25.0	252	63	189				
	Residential - Manuf. Housing		Count	8	100.0	413	368	45	1			
	Residential - Single Family Dwelling		Count	4	20,8	647	120	528	l			
	Schools HAZUS SDURS		Count	4	5.0	2,652	118	2,534	735	3,107	222	3:
rminous Tract 2	Agriculture		Count	5	100.0	5,354	4,765	589	- 100	0,107		<u>_</u>
	Boatlaunch		Count	5	100.0	112	100	12			1	
	Commercial - Wholesale Trade		Count	5	100.0	9.045	8,050	995				
	Delta Roads PBSJ Major Roads		inear (ft)	2,781	25.0	917	229	688			ľ	
	Delta Roads PBSJ Minor Roads		ength (ft)	256,731	25.0	11,429	2,857	8,572				
	gas oil wells			230,731	0.0	0	2,007	0,372				
	<u> </u>		Count	J		0						
	gas_oil-production_fields		rea (acres	303	0.0							
	hwy_Bridge_HAZUS_SDURS		Count	5	0.0	2,247	0	2,247	ļ	ŀ	I	
	hwy_HAZUS_SDURS		ength (ft)	4,771	25.0	1,574	394	1,181	l	ı	I	
	NG_wells		Count	1	0.0	0			1	ı		
	Residential - Manuf. Housing		Count	544	100.0	20,843	18,550	2,293	l	ı		
	Residential - Single Family Dwelling		Count	216	100.0	32,830	29,219	3,611				
	US_Cell_Towers		Count	1	0.0	281	<u>-</u>	281	64,164	10,029	3,364	10,4
rminous_Tract 3			ength (ft)	1,060	25.0	50	13	38				
	Residential - Manuf. Housing	Point C	Count	30	100.0	1,108	986	122`	l			
		Point C	Count	13	20.8	1,758	325	1,433	1,323	1,555	31,179	
witchell_Island	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	31,601	25.0	3,954	988	2,965	· · · · · · · · · · · · · · · · · · ·			
	gas_oil_wells		ount	22	0.0	0		-	ı	ı	I	
	gas_oil-production_fields		rea (acres	1,407	0.0	ō		-	i]	
	NG Pipelines		ength (ft)	6,373	0.0	1,466	0	1,466	I	1	1	
	NG wells		Count	9	0.0	0			1	- 1	1	
	Residential - Manuf. Housing		Count	31	100.0	1,215	1,082	134		1	- 1	
	Residential - Multi Dwellings - 10 to 19		Count	2	100.0	72	64	8	į	1	1	
	Residential - Single Family Dwelling		Count	28	100.0	4,206	3,744	463	5,878	604	141	4,4
ler_Island 2	airport points		Count		0.0	4,200	3,7 44	703	3,070	004	1971	4,4
.o	Airports HAZUS SDURS		Count		25.0	7,226	1,608	- E 648		1	1	
				E 460				5,618		Ì	l	
	Delta_Roads_PBSJ_Major_Roads		inear (ft)	5,160	25.0	1,703	426	1,277		ı		
			ength (ft)	132,666	25.0	26,533	6,633	19,900				
	gas oil wells	Point C	Count	45	0.0	0	- 1	- 1	1	I .		

								•				
	gas_oil-production_fields		rea (acres	2,107	0.0	0	-	•		Ī	ĺ	
	hwy_Bridge_HAZUS_SDURS		Count	1	0.0	2,247	0	2,247				
	NG Pipelines NG wells		ength (ft)	14,527	0.0	3,051	9	3,051	i			
	Residential - Manuf. Housing		Count Count	4	100.0	0 119	106	13			1	
	Residential - Single Family Dwelling		Count	13		2,606	2,319	287				
	Runway_HAZUS_SDURS		Count	1	25.0	41,207	9,169	32,039				
	Solid_Waste_Facilities		count	1	25.0	0	-	-	20,260	40,204	1,290	24,22
nion_Island 1	Dams_HAZUS_SDURS	Point C	Count	1	0.0	0	-	-				·
	Delta_Roads_PBSJ_Major_Roads		inear (ft)	4,382	25.0	1,446	361	1,084			1	
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	175,563	25.0	16,496	4,124	12,372	1			
	gas_oil_wells		ount	5	0.0	0	-					
	gas_oil-production_fields		rea (acres	149	0.0	0 707		- 0 707				
	NG_Pipelines Residential - Manuf. Housing		ength (ft) Count	14,719	0,0 100,0	2,797 331	0 295	2,797	Į	į į	1	
	Residential - Manuf. Housing Residential - Single Family Dwelling		ount	32	43.6	5,561	2,159	36 3,402	1	l		
	Transmission Line		ength (ft)	29,471	0.0	7,256	2,105	7,256	6,939	3,438	94	23,50
nion_island 4	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	113	25.0	8	2	6		5,755		20,00
	gas_oil-production_fields		rea (acres	7	0.0	0	-	<u>.</u>	2	ol	0	
pper_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	4,076	25.0	333	83	250				
	gas_oil_wells	Point C	ount	5	0.0	0	-	-				
	gas_oil-production_fields		rea (acres	188	0.0	0		-		1		
	NG_wells		ount	3	0.0	0	-	-				
	Residential - Single Family Dwelling		ount	3	25.8	418	96	322				
n Siekle Joland	Transmission Line		ength (ft)	4,342	0.0	1,069		1,069	179	322	27	1,31
n_Sickle_Island	gas_oil_wells gas_oil-production_fields		ount	6	0.0	0						
	Residential - Single Family Dwelling		rea (acres ount	149	0.0 39.1	439	153	296				
	Sewage_Treatment		ount		15.0	112,360	15,000	286 1,854	15,153	2,140	423	
eale_Tract 1	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	2,069	25.0	414	103	310				
	gas_oil_wells		ount	4	0.0	Ö				1		
	gas_oil-production_fields	Point A	rea (acres	85	0.0	0	-	-				
	Residential - Manuf. Housing		ount	4	100.0	148	132	16			i	
	Residential - Single Family Dwelling		ount	23	46.6	5,249	2,178	3,071				
ala Tarat 2	Transmission Line		ength (ft)	12,208	0.0	3,931		3,931	2,414	3,087	34	4,24
eale_Tract 2	Delta_Roads_PBSJ_Minor_Roads NG_Pipelines		ength (ft)	1,397	25.0	15	4	11				
	Residential - Single Family Dwelling		ength (ft) ount	8 39	0.0 25.8	7,559	1 722	5 007	4 700	5 007	7.5	
enice_island	Delta Roads PBSJ Minor Roads		ength (ft)	62,979	25.0		1,732	5,827	1,736	5,827	75	1
	gas oil wells		ount	32,379	0.0	12,596 0	3,149	9,447	1	1	1	
	Residential - Manuf. Housing		ount	- 2	100.0	34	30	4	3,179	4	4	9,44
ctoria_Island	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	66,425	25.0	13,285	3,321	9,964	5,173			5,42
=	hwy_HAZUS_SDURS		ength (ft)	5,688	25.0	1,877	469	1,408	[l	l	
	NG Pipelines	Linear L	ength (ft)	9,171	0.0	1,742	0	1,742	į	1	İ	
	Residential - Manuf. Housing	Point C	ount	1	100.0	28	25	3	ſ	l	Ì	
	Residential - Single Family Dwelling		ount	3	100.0	867	772	95	1	ı	l	
Init Carre	Transmission Line		ength (ft)	9,614	0.0	3,095		3,095	4,587	99	1	16,2
Inut_Grove	Communication HAZUS SDURS		ount	5	0.0	663	0	663				
	Delta_Roads_PBSJ_Major_Roads Delta_Roads_PBSJ_Minor_Roads		near (ft)	3,282	25.0	1,083	271	812	i	1	1	
	gas oil wells		ength (ft) ount	34,283 5	25.0 0.0	4,769 0	1,192	3,576		.	1	
			rea (acres	280	0.0	0			l	ĺ	1	
	hc_ambulatory		ount	200	12.0					l	İ	
	hwy_Bridge_HAZUS_SDURS		ount	3	0.0	4,494	0	4,494	ı			
	Residential - Manuf. Housing		ount	11	100.0	489	435	54	ļ	Ī	ı	
	Residential - Single Family Dwelling		ount	203	46.6	40,709	16,892	23,816	18,791	29,027	31,341	4,38
iter Zone 1	Delta_Roads_PBSJ_Major_Roads		near (ft)	2,630	25.0	868	217	651				.,00
	Delta Roads PBSJ Minor Roads		ength (ft)	18,768	25.0	3,088	772	2,316	İ	1	1	
	gas_oil_wells		ount	2	0.0	0	-	-		1	l	
	gas_oil-production_fields		rea (acres	77	0.0	Ō	-			l		
	hwy_HAZUS_SDURS / NG_Pipelines		ength (ft) ength (ft)	8,281 411	25.0 0.0	2,732 115	683	2,049	I	ı	ŀ	
							0	115				

	Data-lana Bia-Ba	lı :	1									
		Linear	Length (ft)	4	0.0	- 4	0	4				
	Residential - Multi Dwellings - 10 to 19		Count Count	2	25.5 25.5	58 31		45 24				
	Residential - Multi Dwellings - 50+ units Residential - Single Family Dwelling			4	25.5 25.8	1,229	282	947		1		
	Transmission Line	Point Linear	Count Length (ft)	166		41		41	1,974	1,017	44	E 470
Water Zone 2				100	25.0	0			1,974	1,017	11	5,176
water Zone Z	Delta Roads PBSJ Minor Roads gas oil-production fields	Linear Point	Length (ft) Area (acres	36		0		0			ĺ	
	Transmission Line	Linear	Length (ft)	30	0.0	0			ا	۵	ا	0
Water Zone 3				<u></u>	25.0							U
water Zone 3	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1	25.0 25.0	0	0	0	ŀ			!
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	104		0		0				!
	gas_oil-production_fields Transmission Line	Point	Area (acres	121	0.0	0	•		اه	0	ام	, i
W-474		Linear	Length (ft)	1				0	U	U	U	0
Water Zone 4	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	59		11	3	8	Į.	1		
	gas_oil-production_fields	Point	Area (acres	4	0.0	0			l l	1	i	
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	1	0.0	0	0	10,000	ا۔			_!
18/-4	Transmission Line	Linear	Length (ft)	1		. 0		0	3	U	0	9
Water Zone 5	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1	25.0	0	0	0	ا۔			_!
Datable Toward	Transmission Line	Linear	Length (ft)	1	0.0	0	-	0	0	0	0	0
Webb_Tract	gas_oil_wells	Point	Count	10		0	- [:	1	ı	ı	ŀ
	gas_oil-production_fields	Point	Area (acres	83		0	-		1	ı	ı	ŀ
	NG_Pipelines	Linear	Length (ft)	1,292	0.0	245	0	245		ار	_l	
	NG_wells	Point	Count	1		0	•	-	0	0	0	245
Woodward_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	28,139	25.0	5,628	1,407	4,221	1	l		ŀ
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	7,820	0.0	1,642	0	11,642		_		
	mokelumne_aqueduct_pipe	Linear	Length (ft)	23,350	0:0	116,749	8,873	0	10,280	0	0	5,863
Wright-Elmwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,702	25.0	1,940	485	1,455		1		
	gas_oil_wells	Point	Count	2	0.0	. 0		-	Ė	- 1		ļ
		Point	Count	1	100.0	60	53	7		1		
	Residential - Multi Dwellings - 50+ units		Count	1	100.0	47	42	5		l l		
	Residential - Single Family Dwelling	Point	Count	4	48.6	931	403	528				
4. - 5	Transmission Line	Linear	Length (ft)	32,244	0.0	7,939		7,939	983	540	125	9,394
Yolo_Bypass	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	983	25.0	196	49	147	49	0	0	147
Zone 14		Point	Count	1	0.0	0	-	-				,
	NG_Pipelines	Linear	Length (ft)	2,273	0.0	432	0	432	0	0	0	432
Zone 155	Transmission Line	Linear	Length (ft)	769	0.0	189	-	189	0	0	0	189
Zone 162	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,564	25.0	623	156	467				
	NG_Pipelines	Linear	Length (ft)	1,545	0.0	293	0	293				
		Point	Count	6	29.3	1,282	334	948	489	948	64	760
Zone 186	Transmission Line	Linear	Length (ft)	13,335	0,0	3,283		3,283	0	0	0	3,283
Zone 206	Bridges_not_in_HAZUS	Point	Count	1	0.0	1,124	0	1,124				
	Commercial - Entertainment and Recrea		Count `	1	14.0	671	84	587	i		1	
	Commercial - Personal and Repair Serv		Count	1	16.0	685	98	588			1	
	Commercial - Professional and Technic	Point	Count	1	28.0	654	163	491				
	Commercial - Retail Trade	Point	Count	1	18.0	339	54	285				
	Commercial - Wholesale Trade	Point	Count	1	13.0	1,319	153	1,166		ľ		ļ
	Delta_Roads_PBSJ_Major_Roads	Linear	Linear (ft)	1,862	25.0	614	154	461				ļ
		Linèar	Length (ft)	455	25.0	91	23	68	- 1			
	gas_oil_wells	Point	Count	1	0.0	0	•					
			Area (acres	4	0.0	0	-					
	Petroleum Pipelines	Linear	Length (ft)	31,152	0.0	31,151	0	31,151		1	-	f
	rail_1000_nodes	Linear	Length (ft)	2	0.0	0			1		l	
		Linear	Length (ft)	2,053	25.0	585	146	439	874	4,241	92	32,119
Zone 207		Linear	Length (ft)	1,856	25.0	371	93	278	To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se			
		Linear	Length (ft)	1,906	0.0	1,905	. 0	1,905		l		İ
	To	Linear	Length (ft)	4,130	25.0	1,177	294	883	387	o l	o l	3,066
		Point	Count	3	16.4	735	107	628	107	628	257	0
Zone 31	Residential - Single Family Dwelling	- Onic										
			Count	2	16.4	373	54	319	54	319	179	OF
Zone 33		Point	Count Count	2	16.4 15.5	373 9	54	319	54	319	1/9	
Zone 31 Zone 33 Zone 36	Residential - Single Family Dwelling Residential - Multi Dwellings - 10 to 19	Point Point		2 2 2		373 9 604	54 1 112		54	319	179	0.
Zone 33	Residential - Single Family Dwelling Residential - Multi Dwellings - 10 to 19 Residential - Single Family Dwelling	Point Point Point	Count	2 2 2 1	15.5	9	1	8	113	501	179	0

1	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	501	25,0	44	11	33		1	ı	1 1
	hc ambulatory	Point	Count	307	11.0			33		1		1
						0		- 4 =]		
	hwy_HAZUS_SDURS	Linear	Length (ft)	61				15				1
	Petroleum Pipelines	Linear	Length (ft)	487				487			i	1
	Rail_HAZUS_SDURS	Linear	Length (ft)	495	25.0	141	35	106			i	1
ľ	Residential - Manuf. Housing	Point	Count	7	100.0		264	33				1
	Residential - Multi Dwellings - 10 to 19		Count	3	32.0	67	19	48			1	
1	Residential - Multi Dwellings - 50+ unit		Count	3	32.0						•	,
	Residential - Single Family Dwelling	Point	Count	10	32.6	1,376	400	977	1,115	3,234	270	640
Zone 38	Commercial - Professional and Technic	Point	Count	2	35.0	47	15	32				
l	Commercial - Retail Trade	Point	Count	2	20.0	34	6	28				
1	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	516	25.0	90	22	67				
į.	hwy_HAZUS_SDURS	Linear	Length (ft)	95	25.0	31	8	23				
	Petroleum Pipelines	Linear	Length (ft)	1,314	0.0	1,314	0	1,314			1	1
	Rail_HAZUS_SDURS	Linear	Length (ft)	1,559	25.0	444	111	333				
1	Residential - Multi Dwellings - 10 to 19	Point	Count	2	22.5	Ź	0	2				
	Residential - Multi Dwellings - 50+ unit	Póint	Count	2	22.5	18	4	14	166	76	12	1,738
Zone 64		Point	Area (acres	3	0.0	0	-	-				
	Residential - Single Family Dwelling	Point	Count	3	16.4	661	96	564	96	564	492	0
Zone 90	Hazmat_HAZUS_SDURS	Point	Count	3	0.0	0	-			1		
Į.	Petroleum Pipelines	Linear	Length (ft)	27	0.0	26	0	26				
	Rail_HAZUS_SDURS	Linear	Length (ft)	14	25.0		1	3	1	l 0	0	29

Table 7 - 6b: Estimate of Asset Cost Damage by Island (100-year Flood) - Scour- 2050

1	2	3	4	5	6	7	8	9	10	11	12	13
]				
			i						100 Year	Differential	1,000ft Increment	
							100 Year	l	Inundation	Repair Costs		Differential Repair
		l		Quantity		Total Asset		Differential	Repair Costs -	for Point	Point Assets -	Costs for Linear
f=1d \$1	44-		Inventory	(Expected		Value	Repair Costs	Repair Costs	By Island	Assets - By	By Island	Assets - By Island
Island Name	Asset Type	Туре	Unit	2050)	Damage	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Island (\$1000)	(\$1,000)	(\$1,000)
Bacon_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	31,753	25.0	6,351	1,588	4,763]		
	Gas_oil_wells NG_Pipelines	Point Linear	Count Length (ft)	12,115	0.0	3,695	-	3,695				
	Residential - Institutional Dormitory	Point	Count	12,113	100.0	9,953	9,953	3,093	11,541			8,458
Bethel_Island	boatlaunch	Point	Count	6	100.0	600	600	0	11,041	 	<u> </u>	0,700
Detrier_isianu	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	164,797	25.0	32,959	8,240					
	gas oil production fields	Point	Area	479	0.0	02,000	- 0,2.10	24,120				
	Gas oil wells	Point	Count	16	0.0	0		-				
	NG_Pipelines	Linear	Length (ft)	10,446	0.0	1,985	0	1,985	1			
	NG_Wells	Point	Count	2	0.0	. 0		•]	I	1	
	Residential - Duplex	Point	Count	7	100.0	2,315	2,315	0			i	
	Residential - Manuf. Housing	Point	Count	383	100.0	13,100	13,100	0				
	Residential - Single Family Dwelling	Point	Count	888	100.0	162,173	162,173	0				
	Utilities	Point	Count	2	0.0	Ö	-	•	400.400			00.704
Dishar Toron	water_trans	Point	Count	4		0			186,429	0	0	26,704
Bishop_Tract	boatlaunch	Point	Count	1	100.0	100	100		3			
	Commercial-Retail Trade Delta_Roads_PBSJ_Minor_Roads	Point Linear	Count Length (ft)	64,590	38.0 25.0	18 12,918	3,230	9,689				
	gas oil production fields	Point	Area	84	0.0	12,910	3,230	9,009	-			,
	Gas oil wells	Point	Count	1	0.0	Ť	<u> </u>		1			
	Hwy Bridge HAZUS SDURS	Point	Count	4	25.0	8,000	2,000	6,000	1			
	Hwy HAZUS SDURS	Linear	Length (ft)	5,207	25.0	1,718	430	1,289		i		
	Residential - Single Family Dwelling	Point	Count	273	48.6	56,420	27,434			1		
	transin_ca	Linear	Length (ft)	16,663	0.0	4,103	-	4,103	33,200	34,997	800	15,080
Bixler_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	240	25.0	48	12	36				
	gas_oil_production_fields	Point	Area	87	0.0	0				}		
	Gas_oil_wells	Point	Count	3	0.0	0		-				
	Residential - Single Family Dwelling	Point	Count	5	37.0		465			792	257	36
Boggs_Tract	bridges_not_in_HAZUS	Point	Count	2	25.0	2,000	500	1,500			i	
•		Point	Count	2	28.0	14,326	4,011	10,315				
	Commercial-Retail Trade Commercial-Wholesale Trade	Point Point	Count	16	18.0 13.0	6,798 36,340	1,224 4,724	5,574 31,615	ł			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	9,927	25.0	36,340	4,724 819		ł			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	115,321	25.0	23,064	5,766		ł			
	Hazmat HAZUS SDURS	Point	Count	21	0.0	20,004	0,700	17,200	1			
	hc ambulatory	Point	Count	2	13.0	ŏ	-	-	1			
	hc nursing res	Point	Count	2	10.0	Ö						
	Hwy_Bridge_HAZUS_SDURS	Point	Count	6	25.0	12,000	3,000	9,000	1	İ		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	2,166	25.0	715	179	536	1	Ī		
	Industrial - Heavy	Point	Count	4	19.0	14,872	2,826	12,046		ĺ		
	Industrial - Light	Point	Count	2	22.0	4,790	1,054			ĺ		
	Petroleum Pipelines	Linear	Length (ft)	13,029	0.0		0	2,736	1	1	I	
	pipeline_trans	Point	Count	2	0.0				4	l	1	
	Port_HAZUS_SDURS	Point	Count	21	0.0	54,020	0	54,020	1		l	
	Rail 1000 nodes	Point	Count	4	0.0	0 000	, 500	1 500		j		
	Rail_Bridge_HAZUS_SDURS Rail_Facility_HAZUS_SDURS	Point Point	Count Count	2 6	25.0 25.0	2,000	500	1,500		ĺ		
	Rail HAZUS SDURS	Linear	Length (ft)	13,198	25.0 25.0	15,434 3,761	3,859 940	11,576 2,821	ł	ĺ	l	
	Residential - Duplex	Point	Count	45	28.5	12,822	3,654	9,167	ł			
		Point	Count	2	15.0	2,978	3,654	2,531	ł		ĺ	
•	- Concorner - Houtenoner Domitory	r Onk	- John		13.0	2,3/0	L	ر د,ني	j	ı	ı	l

	Residential - Manuf. Housing	Point	Count	40		1,146	1,146	0	l	1		
	Residential - Single Family Dwelling	Point	Count	2,380		402,783	117,814	284,969	1			
	Schools_HAZUS_SDURS	Point	Count	4	5.0	2,360	118	2,242	ŀ	1		
	sewage_treat	Point	Count	2	30.0	200,000	60,000	-	l			
	solid_waste_facilities	Point	Count	2	25.0	Ó	- [1	1		
	TankFarms	Point	Count	9	0.0	27,000	-	27,000				
	Waste_Water_HAZUS_SDURS	Point	Count	2	20.0	157,176		15,718	244,015	482,511	18,304	
Bouldin_Island		Point	Count	1	100.0	3,585	3,585	0		1		
	Commercial-Retail Trade	Point	Count	1	100.0	561	561	0		- 1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1,506		497	124	373		ı		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	42,545		8,509	2,127	6,382		į		
	Gas_oil_wells	Point	Count	14		0	4.540	4.550		į		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	18,409	25.0 0.0	6,075 0	1,519	4,556	7,916	٥	0	
	Utilities	Point	Count	47.000			- 000	2,604	7,510	· · · · · ·		
Brack_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	17,362	25.0 0.0	3,472 0	868	2,604		i		
	Gas_oil_wells	Point	Count	5,788	0.0	1,331		1,331		i		
	NG_Pipelines Residential - Manuf. Housing	Linear Point	Length (ft) Count	3,700	100.0	294	294	1,331			i	
	Residential - Single Family Dwelling	Point	Count	4	100.0	462	462	Ö	1,624	ol	o	
Bradford_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	39,652	25.0	7,930	1,983	5,948	1,027	<u> </u>	<u>-</u>	
DIGUIUIG_ISIGIIU	gas oil production fields	Point	Area	39,652		7,830	1,903	0,540	J			
	Gas_oil_wells	Point	Count	11		0	 	-	1	- 1		
	NG_Pipelines	Linear	Length (ft)	3,733	0.0	1.083	0	1,083	1	i		
	NG Wells	Point	Count	5		1,000	<u>-</u>	.,000	j	1		
	Residential - Duplex	Point	Count	1	100.0	97	97	0]	I		
	Residential - Manuf. Housing	Point	Count	6		197	197	Ö		ŀ	l	
	Residential - Single Family Dwelling	Point	Count	18		3,202	3,202	0	5,479	0	0	
Brannan-Andrus Island	air_trans	Point	Count	2	0.0	Ó	-	-				
·	boatlaunch	Point	Count	10	100.0	1,000	1,000	0	1	1		
	Commercial-Entertainment and Recrea	Point	Count	2		2,728	2,728	0	- 1	į		
	Commercial-Professional - Technical S		Count	2		5,066	5,066	0		Ì		
	Commercial-Retail Trade	Point	Count	2	100.0	4,156	4,156	0	1	Į.		
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	22,070		7,283	1,821	5,462	1	ŀ		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	224,386		44,877	11,219	33,658		i		
	gas_oil_production_fields	Point	Area	3,873	0.0	.0	•	•	1	Ī		
	Gas_oil_wells	Point	Count	88		. 0	-	•	j	l		
	hc_hospitals	Point	Count	2		0			ı			
	Hwy Bridge HAZUS SDURS	Point	Count	3		6,000	1,500	4,500	1	l		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	34,137	25.0	11,265	2,816	8,449	l	l		
	NG_Pipelines	Linear	Length (ft)	35,601	0.0	8,366	0	8,366	1			
	NG_Wells Residential - Duplex	Point Point	Count	48 5		2,541	2,541	0		ŀ		
	Residential - Duplex Residential - Manuf. Housing	Point	Count	280		2,541 9,725	2,541 9,725	0	1	ľ		
	Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19		Count Count	280		9,725 728	9,725 728	<u> </u>	ı	ļ		
	Residential - Single Family Dwelling	Point	Count	300		43,259	43,259		1	į		
	Residential - Triplex - Quads	Point	Count	300	100.0	2,480	2,480	-	- 1	ļ	[
	solid waste facilities	Point	Count	2		2,400	2,400		1	ŀ		
	transin ca	Linear	Length (ft)	2,649		652	 	652	- 1	į.		
	water trans	Point	Count	3		002			89,039	4,500	24	
Browns Island	Hazmat_HAZUS_SDURS	Point	Count	2		0	-	-	ol	0	0	
Byron_Tract 1		Point	Count	2		2	2	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,494	25.0	1.899	475	1,424	1	l		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000	1	ŀ		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	6,850	25.0	2,261	565	1,695	1	i		
	Residential - Manuf. Housing	Point	Count	2	100.0	98	98	0	- 1	l		
	Residential - Single Family Dwelling	Point	Count	6	100.0	1,152	1,152	0	- 1	ı	i	
	transin_ca	Linear	Length (ft)	10,359	0.0	3,335	-	3,335	3,292	3,000	51	
Byron_Tract 2	boatlaunch	Point	Count	2	100.0	200	200	0				
	bridges_not_in_HAZUS	Point	Count	5		5,000	1,250	3,750	1	ļ	l	
		Point	Count	2	100.0	1,062	1,062	, 0	ı	İ		
	Commercial-Retail Trade	Point	Count	2	42.0	230	97	133	1	į.	į	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	14.586	25.0	2,917	729	2,188	1			

Gas oil wells	Point IC	Count	1	0.0	n n			1	i	!	1
			4		95	95	0	- 1			
							ő		i		
						- 5,000	8.925	7,326	3.883	184	11,113
			1	38.0		306					<u>-</u>
			1						l		
			3.544						ŀ		
				37.0			17.280	10,690	17,974	3,997	532
				25.0			496				
							14.390				
				0.0	0	-	-		1		
	Point C	Count	39	0.0	0		-	ı			
	Point C	Count	1	25.0	2,000	500	1,500				
NG Pipelines	Linear L	ength (ft)	16,803	0.0	3,193	0	3,193	İ	ı		
NG_Wells	Point C	Count	1	0.0	0	•	-		- 1		
Residential - Manuf, Housing	Point C	Count	1	100.0		44	0		l l		
Residential - Single Family Dwelling	Point C	Count	9	43.6	1,371	598	773		- 1		
transin_ca	Linear L	ength (ft)	15,185	0.0	4,889		4,889	6,104	2,273	28	22,968
Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	8,532	25.0	1,706	427	1,280				
gas_oil_production_fields			475	0.0	Ö	-	-	ļ	1		
Gas_oil_wells			15	0.0	0	-	•	1	1		
NG_Wells			1	0.0	0	<u>-</u>	•	1	1		
Residential - Manuf. Housing		Count	1	100.0	17	17	0		l		
Residential - Single Family Dwelling	Point C	Count	4		775	775	0		i		
transin_ca	Linear L	ength (ft)	567		183	-	183	1,219	0	0	1,462
Commercial-Professional - Technical S	Point C	Count	3	100.0	2,181	2,181	0				
Commercial-Retail Trade	Point C	Count	3				0				
					1,840	460	1,380				
					0	-	-				•
						-	-				
			3								
								- 1			
			1,066								
			3								
						133					1,932
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			3 963				724	ŀ	1		
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			0,002				-				
Residential - Multi-Dwellings - 10 to 19	Point C	Count	1	100.0	6	6 170	0	176	۸	0	734
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling	Point C	Count Count	1	100.0 100.0	6 170	170	0	176	0	0	734 1 539
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines	Point C Point C Linear L	Count Count .ength (ft)	1 1 8,045	100.0 100.0 0.0	6 170 1,529	170 0	0 1,529	176 0	0	0	734 1,529
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch	Point C Point C Linear L Point C	Count Count .ength (ft) Count	1	100.0 100.0 0.0 100.0	6 170 1,529 100	170 0 100	0 1,529 0			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks	Point C Point C Linear L Point C Point C	Count Count Length (ft) Count Count	1 8,045 1	100.0 100.0 0.0 100.0 28.0	6 170 1,529 100 574	170 0 100 161	0 1,529 0 413			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea	Point C Point C Linear L Point C Point C Point C Point C	Count Count Length (ft) Count Count Count	1	100.0 100.0 0.0 100.0 28.0 29.0	6 170 1,529 100 574 6,472	170 0 100 161 1,877	0 1,529 0 413 4,595			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic	Point C Point C Linear L Point C Point C Point C Point C Point C Point C	Count Count Length (ft) Count Count Count Count	1 8,045 1	100.0 100.0 0.0 100.0 28.0 29.0 24.0	6 170 1,529 100 574 6,472 1,401	170 0 100 161 1,877 336	0 1,529 0 413			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S	Point C Point C Linear L Point C	Count Count Length (ft) Count Count Count Count Count Count Count	1 8,045 1	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0	6 170 1,529 100 574 6,472 1,401 7,919	170 0 100 161 1,877 336 7,919	0 1,529 0 413 4,595 1,065			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Retail Trade	Point C Point C Linear L Point C Point C Point C Point C	Count Count Length (ft) Count	1 8,045 1 1 8 8 1 1	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0	6 170 1,529 100 574 6,472 1,401 7,919 3,800	170 0 100 161 1,877 336 7,919	0 1,529 0 413 4,595 1,065 0 2,356			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Retail Trade Delta_Roads_PBSJ_Minor_Roads	Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C	Count Count Length (ft) Count	1 8,045 1	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0 25.0	6 170 1,529 100 574 6,472 1,401 7,919	170 0 100 161 1,877 336 7,919	0 1,529 0 413 4,595 1,065			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Banks Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Redial Trade Delta_Roads_PBSJ_Minor_Roads hc_ambulatory	Point C Point C Linear L Point C Linear L Point C	Count	1 8,045 1 1 8 1 1 1 1 96,920	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0 25.0	6 170 1,529 100 574 6,472 1,401 7,919 3,800 19,384	170 0 100 161 1,877 336 7,919 1,444 4,846	0 1,529 0 413 4,595 1,065 0 2,356 14,538			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Retail Trade Delta Roads PBSJ Minor Roads hc ambulatory Hwy HAZUS SDURS	Point C Point C Linear L Point C Point C Point C Point C Point C Point C Point C Point C C Point C Linear L L Linear L L L L L L L L L L L L L L L L L L L	Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	1 8,045 1 1 8 8 1 1	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0 25.0	6 170 1,529 100 574 6,472 1,401 7,919 3,800 19,384 0	170 0 100 161 1,877 336 7,919 1,444 4,846	0 1,529 0 413 4,595 1,065 0 2,356 14,538			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Retail Trade Delta Roads PBSJ_Minor_Roads hc_ambulatory Hwy_HAZUS_SDURS Residential - Duplex	Point C Point C Linear L Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C Point C	Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	1 8,045 1 1 8 1 1 1 1 96,920	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0 25.0 18.0 25.0 49.5	6 170 1,529 100 574 6,472 1,401 7,919 3,800 19,384 0 2,202 1,229	170 0 100 161 1,877 336 7,919 1,444 4,846 - 551 608	0 1,529 0 413 4,595 1,065 0 2,356 14,538			· ·	
Residential - Multi-Dwellings - 10 to 19 Residential - Single Family Dwelling NG_Pipelines boatlaunch Commercial-Banks Commercial-Entertainment and Recrea Commercial-Medical - Office Clinic Commercial-Professional - Technical S Commercial-Retail Trade Delta_Roads_PBSJ_Minor_Roads hc_ambulatory Hwy_HAZUS_SDURS Residential - Duplex Residential - Manuf. Housing	Point C Point C Linear L Point C Point C Point C Point C Point C Point C Point C Linear L Linear L Point C Linear L Point C Linear L Point C Linear L Point C Linear L Linear L Point C Linear L Point C Point C R Point C R	Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count Count	1 8,045 1 1 8 1 1 1 1 96,920	100.0 100.0 0.0 100.0 28.0 29.0 24.0 100.0 38.0 25.0	6 170 1,529 100 574 6,472 1,401 7,919 3,800 19,384 0	170 0 100 161 1,877 336 7,919 1,444 4,846	0 1,529 0 413 4,595 1,065 0 2,356 14,538			· ·	
	Commercial-Retail Trade Delta Roads PBSJ Minor Roads Residential - Single Family Dwelling Delta Roads PBSJ Major Roads Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads gas oil production fields Gas oil wells Hwy Bridge HAZUS SDURS NG Pipelines NG Wells Residential - Manuf, Housing Residential - Single Family Dwelling transin_ca Delta Roads PBSJ Minor Roads gas_oil_production_fields Gas_oil_wells NG_Wells Residential - Manuf, Housing Residential - Single Family Dwelling transin_ca Delta Roads PBSJ Minor Roads gas_oil_production_fields Gas_oil_wells NG_Wells Residential - Single Family Dwelling transin_ca Commercial-Professional - Technical S Commercial-Retail Trade Delta Roads PBSJ Minor Roads gas_oil_production_fields Gas_oil_wells Hwy_Bridge HAZUS_SDURS Hwy_HAZUS_SDURS NG_Pipelines Religion - Churches and Other Non-professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Commercial-Professional - Technical S Comm	Residential - Manuf, Housing Residential - Single Family Dwelling Residential - Single Family Dwelling Commercial-Professional - Technical S Point Commercial-Professional - Technical S Point Delta Roads PBSJ Minor Roads Linear Residential - Single Family Dwelling Delta Roads PBSJ Major Roads Linear Delta Roads PBSJ Major Roads Linear Delta Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads Pipelines Linear I Roads Pipelines Linear I Residential - Single Family Dwelling I Residential - Single Family Dwelling I Roads I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads PBSJ Minor Roads Linear I Roads Pipelines Linear I Roads Pipelines Linear I Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Single Family Dwelling Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roads Residential - Roa	Residential - Manuf. 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Housing Point Count 18 Residential - Single Family Dwelling Point Count 18 transIn_ca Linear Length (ft) 27,721 Commercial-Professional - Technical S Point Count 1 Delta Roads PBSJ Minor Roads Linear Length (ft) 3,544 Residential - Single Family Dwelling Point Count 107 Delta Roads PBSJ Major Roads Linear Length (ft) 3,544 Residential - Single Family Dwelling Point Count 107 Delta Roads PBSJ Major Roads Linear Length (ft) 2,005 Delta Roads PBSJ Major Roads Linear Length (ft) 95,936 gas oil production fields Point Area 1,352 Gas oil wells Point Count 1 Residential - Manuf. Housing Point Count 1 Residential - Manuf. Housing Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 S,532 gas oil production fields Point Area 475 Gas oil wells Point Rount Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Manuf. Housing Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Manuf. Housing Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 1 Residential - Single Family Dwelling Point Count 3 Commercial-Professional - Technical S Point Count 3 Commercial-Retail Trade Point Count 3 Count 3 Commercial-Retail Trade Point Count 5 Hwy Bridge HAZUS SDURS Point Count 5 Hwy Bridge HAZUS SDURS Point Count 5 Hwy Bridge HAZUS SDURS Point Count 5 Hwy Bridge HAZUS SDURS Point Count 5 Hwy Bridge HAZUS SDURS Point Count 5 Hwy Bridge HAZUS SDURS Point Count 1 Residential - Single Family Dwelling Point Count 5 Gas_oil_wells Point Count 9 Residential - Single Family Dwelling Point Count 9 Residential - Single Family Dwelling Point Count 9 Residential - Single Family Dwelling Point Count 9 Gas_oil_wells Point Count 9 Residential - Single Family D	Residential - Manuf. Housing Point Count 18 100.0	Residential - Manuf. Housing	Residential - Manuf, Housing Point Count 4 100.0 9.5 9.5 Residential - Single Family Dwelling Point Count 18 100.0 3,893 3,893 3,893 3,893 3,893 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1,700 1	Residential - Manuf. Housing	Residential - Manuf. Housing Point Count 4 100.0 95 95 0	Residential - Manuf. Housing Point Count 4 100.0 9.5 3.893 0 0	Residential - Manuf. Housing

Egbert_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	27,250	25.0	5,450	1,363	4,088	1			
	gas oil production fields	Point	Area	862	0.0	0	-		İ	1		
	Gas oil wells	Point	Count	28	0.0	. 0	-		i	1		
	NG Pipelines	Linear	Length (ft)	4,439	0.0	1,065	0	1,065		1		
	NG Wells	Point	Count	3	0.0	0	-	-				
	Residential - Manuf. Housing	Point	Count	3	100.0	45	45	0	}			
	Residential - Single Family Dwelling	Point	Count	9	100.0	1,553	1,553	0		1		
	transin_ca	Linear	Length (ft)	2,861	0.0	921	-	921	2,960	0	0	6,07
Elk_Grove 1	bridges_not_in_HAZUS	Point	Count	8	25.0	8,000	2,000	6,000				
_	Commercial-Entertainment and Recrea	Point	Count	4	26.0	3,800	988	2,812				
	Commercial-Medical - Office Clinic	Point	Count	2	22.0	1,432	315	1,117			1	
	Commercial-Personal and Repair Serv		Count	4	32.0	2,564	820	1,744				
	Commercial-Professional - Technical S	Point	Count	2	47.0	1,804	848	956				
	Commercial-Retail Trade	Point	Count	2	34.0	1,360	462	898		- 1		
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	13,724	25.0	4,529	1,132	3,397	1]	
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	45,676	25.0	9,135	2,284	6,851				
	gas_oil_production_fields	Point	Area	42	0.0	0	•	•	1			
	Gas_oil_wells	Point	Count	6	0,0	0	•			- 1	1	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	6	25.0	12,000	3,000	9,000		ı	1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,190	25.0	1,383	346	1,037	1			
	Industrial - High Technology	Point `	Count	2	34.0	12,698	4,317	8,381			1	
	NG_Pipelines	Linear	Length (ft)	6,580	0.0	2,139	0	2,139	- 1	1	1	
	NG_Wells	Point	Count	1	0.0	0			1		1	
	Rail_1000_nodes	Point	Count	2	0.0	Ö		•	1		1	
	Rail_HAZUS_SDURS	Liñear	Length (ft)	4,979	25.0	1,419	355	1,064	i		1	
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	48.0	440	211	229			1	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	2	48.0	594	285	309			1	
	Residential - Single Family Dwelling	Point	Count	524	46.6	105,948	49,398	56,550	i		1	
	Substation_CA	Point	Count	1	25.0	1,000	250	750		l l	1	
	transin_ca	Linéar	Length (ft)	8,473	0.0	2,086	-	2,086	67,012	88,744	1,069	16,57
Empire_Tract	boatlaunch	Point	Count	4	100.0	400	400	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	114,462	25.0	22,892	5,723	17,169		i	i	
	Gas_oil_wells	Point	Count	4	0.0	0	- [-				
	Residential - Manuf. Housing	Point	Count	10	100.0	423	423	0			j	
	Residential - Single Family Dwelling	Point	Count	7	100.0	700	700	0	7,246	0	0	17,16
Fablan_Tract	air_trans	Point	Count	4.	0.0	0	-	-				
	boatlaunch	Point	Count	4	100.0	400	400	0		ŀ		
	Commercial-Retail Trade	Point	Count	4	100.0	512	512	0			į	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,033	25.0	1,331	333	998				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	177,601	25.0	35,520	8,880	26,640				
	Gas_oil_wells	Point	Count	5	0.0	0	-	-				
	NG_Pipelines	Linear	Length (ft)	1,818	0.0	345	0	345		İ	1	
	Residential - Duplex	Point	Count	7	100.0	1,953	1,953	0			ŀ	
		Point	Count	4	38.0	12,884	4,896	7,988]	ł		
	Residential - Manuf. Housing	Point	Count	24	100.0	912	912	0		1		
	Residential - Single Family Dwelling	Point	Count	52	100.0	7,748	7,748	0	ŀ	1		
	transin_ca	Linear	Length (ft)	9,643	0.0	2,374		2,374	25,634	7,988	. 94	30,35
Fay Island	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	113	25.0	23	6	17	6	0	0	1
Glanville_Tract	Commercial-Retail Trade	Point	Count	2	38.0	2	1	1	<u> </u>			
_	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	6,861	25.0	2,264	566	1,698	ŀ	- 1		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	30,747	25.0	6,149	1,537	4,612		l		
		Point	Area	128	0.0	0	· · · · · · · · · · · · · · · · · · ·		l	1		
		Point	Count	8	0.0	ō			1	1	l	
	Hwy Bridge HAZUS SDURS	Point	Count	5	25.0	10,000	2,500	7,500		1	1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	6,208	25.0	2,049	512	1,536		- 1	j	
	NG Pipelines	Linear	Length (ft)	383	0.0	124	O ,	124	1		1	
	Rail HAZUS SDURS	Linear	Length (ft)	4,115	25.0	1,173	293	880	l		İ	
	Residential - Manuf. Housing	Point	Count	3	100.0	72	72	0	1	-		
	Residential - Multi-Dwellings - 10 to 19		Count	2	49.5	38	19	19	į.			
	Residential - Multi-Dwellings - 50+ unit		Count	2	49.5	18	9	9		1	j	
	Residential - Single Family Dwelling	Point	Count	7	48.6	1,353	658	695	6,167	8,225	149	8,85

i	Dalla Danda DDC I Mines Boods	Linear L	ength (ft)	1,047	25.0	209	52	157	1	1	1	
	Delta_Roads_PBSJ_Minor_Roads Hwv_HAZUS_SDURS		_ength (ft)	267	25.0	88		66		- 1		
	Rail HAZUS SDURS		ength (ft)	7,101		2,024		1,518		i i	i	
	Residential - Multi-Dwellings - 10 to 19		Count	7,101		14		1,5 (0				
	Residential - Single Family Dwelling		Count	5		1,009		Ö				
	transin ca		ength (ft)	7,489		1,844		1,844	2,183	o	0	5.32
Grand Island	boatlaunch		Count	1		100		0			"	
orana iolana			Count	1		935		Ö		1		
	Commercial-Retail Trade		Count	1		1,194		0			j	
	Delta_Roads_PBSJ_Major_Roads		ength (ft)	3,301		1.089		817	•			
	Delta Roads PBSJ Minor Roads		ength (ft)	127,834		25,567	6,392	19,175				
	gas_oil_production fields		Area	761		, 0						
	Gas oil wells		Count	34		Ō	-	-				
	Hwy Bridge HAZUS SDURS		Count	2		4,000	1,000	3,000		ŀ	ı	
	Hwy HAZUS SDURS		ength (ft)	65,548		21,631	5,408	16,223				
	Industrial - Light		Count	2	100.0	4,435		0			i	
	NG Pipelines		ength (ft)	11,501		2,185		2,185			1	
	NG Wells		Count	11,001		0		-,	ı	[
	Residential - Duplex		Count	3		1,032	1,032	0	ı	[j	
	Residential - Manuf. Housing		Count	22		768		ō	Į.	ļ		
	Residential - Multi-Dwellings - 10 to 19		Count	1		1,472	1,472	0	j	[
	Residential - Multi-Dwellings - 50+ unit		Count	1		391	391	0			l	
	Residential - Single Family Dwelling		Count	217		38,544		ō	ļ		ı	
	transin ca		ength (ft)	13,186		3,247		3,247	l		j	
	US Cell Towers		Count	1		250	,	250	61,943	3,250	22	41,6
Hastings_Tract 1	Commercial-Retail Trade		Count	1	100.0	3		0				
	gas oil production fields		Area	45		ō			3	0	o	
Hastings_Tract 2	Commercial-Retail Trade		Count	1		53		0				
	Delta Roads PBSJ Minor Roads		ength (ft)	13,005		2,601		1,951				
	gas_oil_production_fields		Area	363	0.0	-,00		.,,,,,,			•	
	Gas oil wells		Count	28		0						
	NG Wells		Count	3		0						
	Residential - Manuf, Housing		Count	1		25		, 0				
	Residential - Single Family Dwelling		Count	7		1,175		0		1		
	transin ca		ength (ft)	4,432		1,427	-	1,427	1,903	o	0	3,37
Holland Land	Delta Roads PBSJ Major Roads		ength (ft)	119		39	10	29				
	Delta Roads PBSJ Minor Roads		ength (ft)	228		46		34		1		
	Gas oil wells		Count	2	0.0	0						
	Hwy HAZUS SDURS		ength (ft)	9,793		3,232	808	2,424				
	Petroleum Pipelines		ength (ft)	97		20		20		ı		
	Residential - Single Family Dwelling		Count	2	100.0	384	384	0		i		
	transin da		ength (ft)	78		19		19	1,213	o	o	2,52
Holland_Tract	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	41,410		8,282	2,071	6,212				-,
	Gas oil wells		Count	8		0			1	i		
	Hwy Bridge HAZUS SDURS		Count	1		2,000	500	1,500	ļ		1	
	Residential - Manuf. Housing		Count	2		64		0				
			Count	5		1,059		0	3,694	1,500	30	6,2 ⁻
Honker_Bay_Club	gas oil production fields		Area	47		0						. , , , , , , , , , , , , , , , , , , ,
	NG Pipelines		ength (ft)	4,395		835	0	835		1		
	Petroleum Pipelines		ength (ft)	4,793		1,007	Ö	1,007		I		
	Residential - Single Family Dwelling		Count	3	48.6	531	258	273	258	273	14	1,84
Hotchkiss_Tract 1	boatlaunch		Count	2	100.0	200	200	0				······································
_	Commercial-Professional - Technical S		Count	2		2,852	2,852	0	1	I		
	Commercial-Retail Trade		Count	2	42.0	330	139	191	1			
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)	56,069		11,214	2,803	8,410	1	I	1	
	gas_oil_production_fields		∖réa	46		0			1	ľ	I	
	Gas oil wells		Count	15		0]			
	Hwy Bridge"HAZUS SDURS		Count	2		4,000	1,000	3,000	į	1	ı	
	NG Pipelines		ength (ft)	12,516		2,378		2,378		1	1	
	NG Wells		Count	3	0.0	0			j	- 1		
	Residential - Duplex		Count	7		2,118	2.118	Ö	-	1	I	
				114				ň	1			
	Residential - Duplex Residential - Manuf. Housing		Count Count	114	.00.0	2,118 4,045		0				

									_			
	Residential - Single Family Dwelling	Point	Count	363	100.0	66,002	66,002	0				
	Residential - Triplex - Quads	Point	Count	44.000	100.0 0.0	904	904	4 500	00.000	2 404	440	45.0
	transin_ca	Linear	Length (ft)	14,068		4,529	- 454	4,529	80,062	3,191	110	15,3
otchkiss_Tract 2	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,014	25.0	1,803	451	1,352	į			
	gas_oil_production_fields	Point Point	Area Count	634	0.0	0						
	Gas_oil_wells NG Pipelines	Linear	Length (ft)	2,371	0.0	450	<u>-</u>	450	451	0	0	1.8
ersey_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	30,773	25.0	6,155	1,539	4,616	401			1,0
cracy_isiand	gas_oil_production_fields	Point	Area	536	0.0	0,100	- 1,000	7,010		1		
	Gas_oil_wells	Point	Count	12	0.0	ő			I			
	NG Pipelines	Linear	Length (ft)	5,422	0.0	3,389	0	3,389	ŀ	ı		
	NG_Wells	Point	Count	3	0.0	0		-				
	Residential - Manuf. Housing	Point	Count	1	100.0	35	35	0				
		Point	Count	3	100.0	579	579	0	1			
	solid_waste_facilities	Point	Count	1	25.0	0	-	-	1	l		
	transin_ca	Linear	Length (ft)	15,919	0.0	5,125	-	5,125	2,153	0	0	13, ⁻
ones_Tract-Upper_and_Lower	bridges_not_in_HAZUS	Point	Count	2	25.0	2,000	500	1,500				
	Commercial-Professional - Technical S	Point	Count	2	100.0	478	478	0	1	į		
	Commercial-Retail Trade	Point	Count	2	100.0	88	88	0	1	l l		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	84,103	25.0	16,821	4,205	12,615	1	İ		
	gas_oil_production_fields	Point	Area	106	0.0	0	-	_	i	l l		
	Gas_oil_wells	Point	Count	12	0.0	0	-	-				
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	5,018	0.0	1,054	0	11,054	i			
	mokelumne_aqueduct_pipe	Linear	Length (ft)	14,985	0.0	74,925	5,694	0				
	NG_Pipelines	Linear	Length (ft)	15,033	0.0	24,203	U	24,203	1			
	NG_Storage	Point	Count		0.0	0			1			
	NG_Wells	Point	Count	1	0:0 100.0	. 0		2 222				
	Rail Bridge HAZUS SDURS Rail HAZUS SDURS	Point	Count	5 070	100.0	2,000	0.000	2,000				
	Residential - Manuf. Housing	Linear Point	Length (ft) Count	5,679 4	100.0	1,619 101	8,000 101	<u> </u>		ľ		
	Residential - Single Family Dwelling	Point	Count	5	100.0	603	603		19,669	3,500	41	37.
(asson_District	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,912	25.0	582	146	437	13,003	0,000	71	51,
asson_bistrict	Gas oil wells	Point	Count	4	0.0	0	140	751	1			
	Residential - Single Family Dwelling	Point	Count	18	100.0	2,554	2,554	-				
	transin_ca	Linear	Length (ft)	9,505	0.0	2,340	2,004	2,340	2,700	0	0	2,
(ing_lsland	boatlaunch	Point	Count	4	100.0	400	400	0				
gioiaiia	Commercial-Entertainment and Recrea	Point	Count	4	100.0	1,852	1,852	0	1			
	Commercial-Professional - Technical S	Point	Count	4	100.0	1,952	1,952	0	1	į.		
	Commercial-Retail Trade	Point	Count	4	100.0	14,176	14,176	0	1			
	Delta_Roads_PBSJ_Minor_Roads	Lińear	Length (ft)	123,482	25.0	24,696	6,174	18,522				
	gas oil production fields	Point	Area	152	0.0	O	-			I		
	Gas_oil_wells	Point	Count	6	0.0	0		•	1			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	8	25.0	16,000	4,000	12,000	1	Ī		
	NG Wells	Point	Count	2	0.0	0		-	1	İ		
	Residential - Duplex	Point	Count	4	100.0	492	492	Ö	1	ŀ		
	Residential - Institutional Dormitory	Point	Count	4	100.0	9,456	9,456	0	1	l		
	Residential - Manuf. Housing	Point	Count	154	100.0	5,152	5,152	Ō	į	ļ		
	Residential - Single Family Dwelling	Point	Count	63	100.0	8,194	8,194	0				
	water_trans	Point	Count	4	0.0	<u></u>		-	51,847	12,000	293	18,
ibby_McNeil_Tract 1	Commercial-Professional - Technical S	Point	Count	2	47.0	1,110	522	588				
	Commercial-Retail Trade	Point	Count	2	34.0	1,336	454	882	1	i		
	Communication_HAZUS_SDURS	Point	Count	2	100.0	236	236	0		1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Lèngth (ft)	5,110	25.0	1,686	422	1,265	İ			
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,141	25.0	2,828	707	2,121	i			
	gas_oil_production_fields	Point	Area	143	0.0	9						
	Gas_oil_wells	Point	Count	<u>, 7</u>	0.0	0	-					
	Residential - Duplex	Point	Count	. , 6	48.0	1,746	838	908	ļ			
	Residential - Manuf. Housing Residential - Single Family Dwelling	Point Point	Count Count	3 57	100.0 46.6	122 10,293	122 4,799	5,494	8,099	7 070	4 000	^
ibby McNeil Tract 2									8,099	7,872	1,360	3,
ibby_McNeil_Tract 2	boatlaunch Commercial-Retail Trade	Point Point	Count	2	100.0 38.0	200	200	- 0		i		
	Delta Roads PBSJ Minor Roads	Linear	Count Length (ft)	480	25.0	96	24	72	1			

	gas oil production fields	Point	Area	42	0.0	ol.			1			1
	Residential - Single Family Dwelling	Point	Count	6	48.6	1,032	502	530	727	531	84	
iberte Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	11,521	25.0	2,304	576	1,728				
	gas oil production fields	Point	Area	470	0.0	0		- 1		ŀ		
	Gas oil wells	Point	Count	18	0.0	0	-	-				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500				
	NG_Pipelines	Linear	Length (ft)	21,290	0.0	4,045	. 0	4,045	1,076	1,500	21	5,77
_incoln_Village_Tract	Commercial-Entertainment and Recrea	Point	Count	5	20.0	4,338	868	3,470				
	Commercial-Professional - Technical S	Point	Count	1	41.0	3,142	1,288	1,854		i		
	Commercial-Retail Trade	Point	Count	1	26.0	4,761	1,238	3,523		- 1		1
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	123,036	25.0	24,607	6,152	18,455				1
	Hwy_Bridge_HAZUS_SDURS	Point	Count	4	25.0	8,000	2,000	6,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,211	25.0	1,390	347	1,042				
	Religion - Churches and Other Non-pro	Point	Count	1	14.0	1,948	273	1,675				
	Residential - Duplex	Point	Count	47	43.0	12,104	5,205	6,899				
	Residential - Multi-Dwellings - 10 to 19		Count	2	43.0	11,552	4,967	6,585				
	Residential - Multi-Dwellings - 5 to 9 ur		Count	20	43.0	32,750	14,083	18,668				
	Residential - Multi-Dwellings - 50+ unit		Count	2 2 2 2	43.0	35,918	15,445	20,473		1		1
	Residential - Single Family Dwelling	Point	Count	2,835	39.1	518,455	202,846	315,609				1
	Residential - Triplex - Quads Schools HAZUS SDURS	Point Point	Count	53 9	43.0	14,315	6,155	8,160		1		
	water_trans		Count	9	9.0 0.0	5,310	478	4,832	004.044	207.740	47.000	40.4
isbon District		Point	Count			- V			261,344	397,748	17,060	19,49
.isboii_District	airport_points Airports HAZUS SDURS	Point Point	Count		25.0 25.0	12.862	3,216	9,647	ŀ	1		
	Delta Roads PBSJ Major Roads	Linear		20,168	25.0	6,655		4,992		l		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft) Length (ft)	21,178	25.0 25.0	4,236	1,664 1,059	3,177				
	gas oil production fields	Point	Area	21,178	0.0	4,236	1,059	3,177				
	Gas_oil_wells	Point	Count		0.0		-					
	Rail HAZUS SDURS	Linear	Length (ft)	4,755	25.0	1,355	339	1,016				
	Residential - Multi-Dwellings - 10 to 19		Count	7,700	100.0	254	254	1,010				
		Point	Count	26	100.0	4,730	4,730	0				
	Runway HAZUS SDURS	Point	Count	2	25.0	73,349	18.337	55,012				l
	transin ca	Linear	Length (ft)	4,743	0.0	1,168	- 10,007	1,168				
		Point	Count	2	0.0	500		500	29.598	65,158	1,123	10,35
ittle Holland Tract	gas_oil_production_fields	Point	Area	89	0.0	0			20,000		1,120	10,0
	Gas oil wells	Point	Count	2	0.0	ő			o	o	0	į
.ittle_Egbert□_Tract	Commercial-Professional - Technical S	Point	Count	3	100.0	3	3	0				<u> </u>
	Commercial-Retail Trade	Point	Count	3	100.0	3	3	0	İ			
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	150	25.0	50	12	37	ľ	1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	23,412	25.0	4,682	1,171	3,512		i		
	gas_oil_production_fields	Point	Агеа	895	0.0	O	-	-	1			
	Gas_oil_wells	Point	Count	21	0.0	0		-	1			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	· 3	25.0	6,000	1,500	4,500	1	I		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,495	25.0	1,813	453	1,360	1	į		
	NG_Pipelines	Linear	Length (ft)	8,586	0.0	2,061	0	2,061	i	ŀ		I
	NG_Wells	Point	Count	2	0.0	0		-	l			
	Residential - Duplex	Point	Count	3	100.0	366	366	Ö				İ
	Residential - Manuf. Housing	Point	Count	9	100.0	293	293	0				
	Residential - Single Family Dwelling	Point	Count	71	100.0	12,767	12,767	0	16,568	4,500	87	6,9
.ower_Roberts_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	11,403	25.0	2,281	570	1,710				
	Gas_oil_wells	Point	Count	1	0.0	0	-	-	[
	Residential - Manuf. Housing	Point	Count	3	100.0	60	60	0	į			
	Residential - Single Family Dwelling	Point	Count	3	48.6	375	182	193	812	193	44	1,7
andeville_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	26,063	25.0	5,213	1,303	3,909				
	Gas_oil_wells	Point	Count	4	0.0	0			1,303	0		3,90
cCormack_Williamson_Tract	Communication_HAZUS_SDURS	Point	Count	2	100.0	236	236	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	14,823	25.0	2,965	741	2,223		l		ŀ
	gas_oil_production_fields	Póint	Area	805	0.0	0				1		1
	gas_oil_production_fields	Point	Area	602	0.0	0	-	-	į			l
	Gas_oil_wells	Point	Count	18	0.0	0		-	į.			1
I-DII YI	NG_Pipelines	Linear	Length (ft)	4,699	0.0	893	0	893	977	0	0	3,11
lcDonald_Tract	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	52,771	25.0	10.554	2,639	7,916				I

	0 "	In : :	10				τ				1	i
	Gas_oil_wells	Point	Count	48	0.0	0	-	4 507	1			
	NG_Pipelines	Linear	Length (ft)	5,236	0.0 100.0	1,597		1,597	7,392	•		9,5
	Residential - Institutional Dormitory	Point	Count			4,753	4,753	0	7,392	0		9,3
/IcMullin_Ranch-River_Junction		Point	Count	2	38.0	60	23	37				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	14,243	25.0	4,700	1,175	3,525				•
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	29,322	25.0	5,864	1,466	4,398				
	Gas_oil_wells	Point	Count	1	0.0	0		-				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				İ
	NG_Pipelines	Linear	Length (ft)	5,373	0.0	1,397	0	1,397			l	1
	Residential - Manuf. Housing	Point	Count	7	100.0	215	215	0				Į.
	Residential - Single Family Dwelling	Point	Count	61	48.6	10,048	4,886	5,162				
	transin_ca	Linear	Length (ft)	17,211	0.0	4,238	•	4,238	8,765	8,199	175	13,5
Medford_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	28,314	25.0	5,663	1,416	4,247				į.
	Residential - Institutional Dormitory	Point	Count 1	1	100.0	1,756	1,756	0	3,172	0	(4,2
Merritt Island	Commercial-Professional - Technical S	Point	Count	2	100.0	564	564	0				
	Commercial-Retail Trade	Point	Count	2	100.0	124	124	0	İ			i
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	20,406	25.0	6,734	1,683	5,050				
		Lińear	Length (ft)	62,904	25.0	12,581	3,145	9,436				1
	gas_oil_production_fields	Point	Area	159	0.0	0	-	-				
	Gas_oil_wells	Point	Count	11	0.0	O.	-	-	1			1
	Residential - Manuf. Housing	Point	Count	4	100.0	180	180	0	l			1
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2		180	180	0	1			1
		Point	Count	66		11,453	11,453	0	17,329	0	C	14,4
Middle Roberts Island	boatlaunch	Point	Count	3	100.0	300	300	o				
	Commercial-Personal and Repair Serv		Count	1	100.0	613	613	ŏ				
	Commercial-Professional - Technical S		Count	1	100.0	358	358	ň				
	Commercial-Retail Trade	Point	Count	1	100.0	84	84	-				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	12,305	25.0	4,061	1,015	3.045				
		Linear	Length (ft)	123,063	25.0	24,613	6,153	18,459				
	gas oil production fields	Point	Area	884	0.0	24,013	0,133	10,433				
	Gas oil wells	Point	Count	29	0.0	. 0	-		İ			
		Linear	Length (ft)	8,231	0.0	1,729	0	11.729				
	Hwy Bridge HAZUS SDURS	Point		0,231	25.0		500					
	Hwy HAZUS SDURS	Linear	Count	18,587	25.0	2,000 6,134	1,533	1,500				
			Length (ft)	22,309				4,600				
	mokelumne_aqueduct_pipe	Linear	Length (ft)		0.0	111,545	8,477	103,068				
	NG_Pipelines	Linear	Length (ft)	17,100	0.0	3,249		3,249	Ì			
	NG_Wells	Point	Count	12	0.0	0		-				
	Petroleum Pipelines	Linear	Length (ft)	3,641	0.0	765	- 0	765	i			1
	Rail_HAZUS_SDURS	Linear	Length (ft)	7,982	25.0	2,275	569	1,706				
	Residential - Duplex	Point	Count	4	100.0	1,216	1,216	0				
		Point	Count	1	47.0	6,424	3,019	3,405	İ			
		Point	Count	19	100.0	638	638	0	ļ			
		Point	Count	58	100.0	8,873	8,873	0				
	solid_waste_facilities	Point	Count	1	25.0	0	· .	-1				1
	tranśin_ca	Linear	Length (ft)	42,538	0.0	10,473	-	10,473	33,349	4,905	27	147,0
Netherlands 1	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	430	25.0	86	22	65				
	gas_oil_production_fields	Point	Area	199	0.0	O)	•	- 1				
	Gas_oil_wells	Point	Count	9	0.0	O O	-1	-	1			1
	Hwy_HAZUS_SDURS	Linear	Length (ft)	9,046	25.0	2,985	746	2,239	1			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	1	100.0	13	13	0	1			1
	Residential - Single Family Dwelling	Point	Count	2	100.0	413	413	, 0	1,194	0	o	2,3
Netherlands 2	air_trans	Point	Count	1	0.0	0		- 1				
	Commercial-Professional - Technical S	Point	Count	1	100.0	10	10	0				1
		Point	Count	1	100.0	468	468	Ö	1			1
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	12,898	25.0	4,256	1.064	3,192	1			1
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	170,541	25.0	34,108	8,527	25,581	ı			
	Fire Stations HAZUS SDURS	Point	Count	1 1	100.0	708	708	0,001	ı			
		Point	Area	281	0.0	700		<u>`</u>	1			1
	Gas oil wells	Point	Count	27	0.0				1			I
		Point	Count	- 21	0.0	- 0			ļ			
		Point				i		1 500	1			I
			Count	1 700	25.0	2,000	500	1,500	. 1			1
	Hwy_HAZUS_SDURS	Linear	Length (ft)	8,796	25.0	2,903	726	2,177	1		i	1

	Rail_1000_nodes		Count	2	0.0	0	-		ı	- 1	ľ	
	Rail HAZUS SDURS	Linear	Length (ft)	7,594	25.0 100.0	2,164 168	541 168	1,623	1			
	Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19	Point Point	Count Count	1	100.0	591	591					
	Residential - Single Family Dwelling		Count	153	100.0	27,394	27,394	0				
	Schools_HAZUS_SDURS		Count	2	13.0	1,180	153	1,027	40,850	2,527	17	32,57
New_Hope_Tract	boatlaunch		Count	4	100.0	400	400	0				
	Commercial-Professional - Technical S Commercial-Retail Trade		Count Count	2	100.0 42.0	244 798	244 335	0 463				
	Delta Roads PBSJ Major Roads		Length (ft)	9,882	25.0	3,261	815	2,446			1	
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	31,728	25.0	6,346	1,586	4,759				
	gas_oif_production_fields		Area	792	0.0	0	-				İ	
	Gas_oil_wells		Count	24	0.0 25.0	4,000	1,000	3,000				
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS		Count Length (ft)	4,295	25.0 25.0	1,417	354	1,063		1	ĺ	
	NG_Pipelines		Length (ft)		0.0	2,577	0	2,577	l		İ	
	NG_Wells	Point	Count	2	0.0	0	-		ļ	j	Į.	
	Rail_HAZUS_SDURS		Length (ft)	5,104	25.0	1,455	364	1,091			ŀ	
	Residential - Manuf. Housing		Count	61	100.0 100.0	2,080 9,817	2,080	0	ŀ			
	Residential - Single Family Dwelling US Cell Towers		Count Count	69 4	0.0	1,000	9,817	1,000	16,995	4,463	71	11,930
Orwood_Tract			Count	1	100.0	384	384	0	10,000	- 1,100		,,,,,,
_	Commercial-Retail Trade		Count	1	100.0	27	27	O O	1		i	
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	13,367	25.0	2,673	668	2,005	1			
×	Gas_oil_wells		Count	3	0.0	0		40 447	1			
	gas_pipeline_kinder_morgan_LS_9 mokelumne_aqueduct_pipe	Linear Linear	Length (ft) Length (ft)	14,841 40,546	0.0	3,117 202,730	15,407	13,117		l		
	NG Pipelines	Linear	Length (ft)	6,470	0.0	1,812	0	1,812		l	·	
•	Residential - Manuf. Housing		Count	1	100.0	22	22	Ö	1			
	Residential - Single Family Dwelling		Count	87	100.0	22,264	22,264	0		_		
Balm Tract	transin_ca		Length (ft)	8,083	0.0	2,602	4 222	2,602	38,773	0	- 0	9,536
Palm_Tract	Delta Roads PBSJ Minor Roads gas oil production fields		Length (ft) Area	24,442 100	25.0 0.0	4,888 0	1,222	3,666		i		
	Gas_oil_wells		Count	1	0.0	ő	-	-	1	I		
	NG_Pipelines	Linear	Length (ft)	10,249	0.0	2,870	0	2,870	1			
	Rail_HAZUS_SDURS	Linear	Length (ft)	12,628	25.0	3,599	900	2,699	·			
	Residential - Manuf. Housing Residential - Single Family Dwelling		Count	1	100.0	47 1,978	47 1,978	- 0	1			
	transin ca		Count Length (ft)	5,170	100.0 0.0	1,665	1,970	1,665	4,147	0	o	. 10,900
Paradise Junction	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	2,574	25.0	849	212	637	.,	-		
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	16,831	25.0	3,366	842	2,525				
	Gas_oil_wells		Count	4	0.0	0					i	
	Hwy Bridge HAZUS SDURS Hwy HAZUS SDURS		Count	1'557	25.0 25.0	8,000	2,000	6,000				
	Rail_HAZUS_SDURS		Length (ft) Length (ft)	1,557 3,747	25.0	514 1,068	128 267	385 801	ı			
	Residential - Institutional Dormitory		Count	5	26.0	20,266	5,269	14,997			l	
	Residential - Manuf. Housing		Count	2	100.0	56	56	0			I	
	Residential - Multi-Dwellings - 10 to 19		Count	2	49.5	14	7	7				
	Residential - Single Family Dwelling Substation CA	,	Count Count	11	48.6 25.0	1,608 1,000	782 250	826 750				
	transin_ca		Length (ft)	11,559	0.0	2,846	230	750 2,846	9,813	22,580	711	7,194
Pescadero	Commercial-Professional - Technical S		Count	2	100.0	2,146	2,146	0	-,			,,,,,
	Commercial-Retail Trade		Count	2	38.0	346	131	215	ł		l	
	Delta_Roads_PBSJ_Major_Roads		Length (ft)	2,697	25.0	890	223	668	ŀ		. [
	Delta Roads PBSJ Minor Roads		Length (ft)	51,051	25.0	10,210	2,553	7,658	İ		ŀ	
	gas_oil_production_fields Gas_oil_wells		Area Count		0.0	0				l		
	Hazmat HAZUS SDURS		Count	9	0.0	. 0						
	Hwy Bridge HAZUS SDURS		Count	4	25.0	8,000	2,000	6,000		j		
	Hwy_HAZUS_SDURS		Length (ft)	14,226	25.0	4,695	1,174	3,521		ľ		
			Length (ft)	1,699	0.0	323	0	323		ſ		
	Petroleum Pipelines	Linear	Length (ft)	1,067	0.0	224	.01	224				

												-
		Linear	Length (ft)	257	25.0	73	18	55				
	Residential - Manuf. Housing	Point	Count	9	100.0	343	343	0				
			Count	2	49.5	164	81	83				
	Residential - Single Family Dwelling	Point	Count	45	48.6	8,279	4,026	4,253		1		
	sewage_treat	Point	Count	2	30.0	200,000	60,000	1 105	70.004	40.554	005	40.5
	transin_ca	Linear	Length (ft)	16,671	0.0	4,105		4,105	72,694	10,551	205	16,5
eter Pocket		Point	Area	444	0.0	. 0						
	Gas_oil_wells	Point	Count	5	0.0	0						i
	NG_Pipelines	Linear	Length (ft)	4,331	0.0	823	. 0	823				
	NG_Wells	Point	Count	2	0.0	0						
	Residential - Single Family Dwelling	Point	Count	2	48.6 0.0	432	210	222	242	200		
	transin_ca	Linear	Length (ft)	865		279		279	210	222	8	1,1
ico_Naglee_Tract		Point	Count	2	100.0	3,110	3,110	0				
	Commercial-Retail Trade	Point	Count	2	38.0	744	283	461				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	22,049	25.0	7,276	1,819	5,457		1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	51,765	25.0	10,353	2,588	7,765	İ	1		
	Gas_oil_wells	Point	Count	. 7	0.0	0		-		1		
		Point	Count	2	0.0	0	<u>-</u>	-		1		
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	NG_Pipelines	Linear	Length (ft)	16,204	0.0	3,079	0	3,079		1		
	Rail_1000_nodes	Point	Count	2	0.0	, 0		-	ĺ			
-	Rail_HAZUS_SDURS	Linear	Length (ft)	2,787	25.0	794	199	596				
		Point	Count	4	100.0	286	286	0		i		
		Point	Count	117	48.6	24,560	11,942	12,618		i		
	Substation_CA `	Point	Count		25.0	1,000	250	750		ł		
	transin_ca	Linear	Length (ft)	17,024	0.0	4,192	- 1	4,192		l l		
	Utilities	Point	Count	2	0.0	.0	-	-	21,477	16,829	342	21,
ierson_Tract	Commercial-Professional - Technical S	Point	Count	2	100.0	986	986	0				
	Commercial-Retail Trade	Point	Count	2	100.0	398	398	0		i		
	Communication_HAZUS_SDURS	Point	Count	4	100.0	472	472	0				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	8,519	25.0	2,811	703	2,108		l l		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	90,767	25.0	18,153	4,538	13,615		ı		
	Fire_Stations_HAZUS_SDURS	Point	Count	2	100.0	1,416	1,416	0				
	gas oil production fields	Point	Area	150	0.0	ō	-	•				
	Gas oil wells	Point	Count	10	0.0	0	-					
	Hwy Bridge HAZUS SDURS	Point	Count	3	25.0	6,000	1,500	4,500				
	Hwy HAZUS SDURS	Linear	Length (ft)	11,722	25.0	3,868	967	2,901				
	Residential - Duplex	Point	Count	2	100.0	1,062	1,062	0	1	·		
	Residential - Manuf, Housing	Point	Count	11	100.0	408	408	Ŏ				
	Residential - Single Family Dwelling	Point	Count	105	100.0	14,386	14,386	<u></u>				
	Schools HAZUS SDURS	Point	Count	3	33.0	1,770	584	1.186	İ			
	transin ca	Linear	Length (ft)	4,869	0.0	1,199		1,199	27,421	5,686	74	. 19,8
ittsburg	Commercial-Personal and Repair Serv		Count	4,003	22.0	2,228	490	1,738	-1,T-1	0,000		19,0
y	Commercial-Professional - Technical S		Count	2	38.0	1,044	397	647	l	1		
	Commercial-Retail Trade	Point	Count	······ , 2	23.0	1,250	288	963	1	1		
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	6,213	25.0	2.050	513	1,538	Į.	1		
	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear	Length (ft)	7,797	25.0	1,559	390	1,538	ŀ	i		
	Industrial - Construction	Point	Count (11)	1,191	100.0	3,398	390	1,170	1			
	NG Pipelines			10,041	0.0			1,908	ļ	1		
		Linear	Length (ft)			1,908	0		l			
	Petroleum Pipelines	Linear	Length (ft)	5,423	0.0	1,139	. 0	1,139	1	j		
	Port_HAZUS_SDURS	Point	Count	2	0.0	5,145	0	5,145		į		
	Rail 1000 nodes	Point	Count	8	0.0	0	-		j	ļ		
	Rail_Bridge_HAZUS_SDURS	Point	Count	2	25.0	2,000	500	`1,500	1	l		
	Rail_HAZUS_SDURS	Linear	Length (ft)	14,711	25.0	4,193	1,048	3,144	1	ļ		
		Point	Count	8	38.5	2,730	1,051	1,679	1			
•		Point	Count	2	100.0	72	72	. 0	j			
	Residential - Multi-Dwellings - 10 to 19		Count	2	38.5	2,202	848	1,354	1	1		
		Point	Count	2	38.5	608	234	374	1	1		
		Point	Count	184	37.0	35,330	13,072	22,258	1	- 1		
	Residential - Triplex - Quads	Point	Count	8	38.5	1,940	747	1,193	1	1		
	Substation CA	Point	Count	1	25.0	1,000	250	750	1	I		
	transin ca	Linear	Length (ft)	37,607	0.0	9,259		9,259				

	Utilities	Point	Count	2	0.0	0	-	-	23,297	37,600	1,039	18,158
Prospect_Island	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,398	25.0	1,080	270	810				
	gas_oil_production_fields	Point	Area	301	0.0	0		-	ŀ			
	Gas_oil_wells	Point	Count	12	0.0	0	-	•				
		Point	Count	1	100.0	1	1	0				
	Residential - Single Family Dwelling	Point	Count	2	100.0	448	448	0	719	0	0	810
Quimby_Island	bridges_not_in_HAZUS	Point	Count	1	25.0	1,000	250	750	ŀ	1		
	Gas_oil_wells	Point	Count	1	0.0	0						
	Residential - Single Family Dwelling	Point	Count	1	100.0	84	84	0	334	750	57	C
RD 17 (Mossdale)	boatlaunch	Point	Count	4	100.0	400	400	0		-		
	bridges_not_in_HAZUS	Point	Count	3	25.0	3,000	750	2,250		1		
	Commercial-Banks	Point	Count	2	17.0	546	93	453		ŀ		
	Commercial-Professional - Technical S		Count	2	38.0	2,712	1,031	1,681		I		
	Commercial-Retail Trade	Point	Count	2	23.0	1,138	262	876				
	Commercial-Wholesale Trade	Point	Count	2	19.0	3,516	668	2,848				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	7,373	25.0	2,433	608	1,825		i		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	121,719	25.0	24,344	6,086	18,258				
	gas_oil_production_fields	Point	Area	202	0.0	0	-			i		
	Gas_oil_wells	Point	Count	5	0.0	0	•	-		ı		
		Point	Count	7	25.0	14,000	3,500	10,500	ŀ	1		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,937	25.0	1,959	490	1,469	[ı		
	Industrial - Heavy	Point	Count	3	26.0	6,725	1,748	4,976				
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,003	25.0	571	143	428		1		
	Residential - Duplex	Point	Count	2	38.5	464	179	285		l		
	Residential - Manuf. Housing	Point	Count	31	100.0	1,208	1,208	0		l		
		Point	Count	2	38.5	244	94	150		- 1		
	Residential - Single Family Dwelling	Point	Count	984	37.0	197,982	73,253	124,729		I		
		Point	Count	2	38.5	314	121	193				
B		Linear	Length (ft)	43,438	0.0	10,695		10,695	90,633	148,942	1,827	32,675
Rindge_Tract		Linear	Length (ft)	334,872	25.0	66,974	16,744	50,231		I		
	Gas_oil_wells	Point	Count	9	0.0	0				I		
		Point	Count	4	0.0	0				1		
		Point	Count	4	100.0	724	724	0		1		
		Point	Count	8	100.0	332	332	0		1		
		Point	Count	16	100.0	2,136	2,136	0				
D. D. T.		Point	Count	4	0.0	1,000		1,000	19,936	1,000	13	50,231
Rio_Blanco_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	2,927	25.0	585	146	439				
		Point	Count	1	0.0	0				i i		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500		•		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,254	25.0	1,404	351	1,053		[
Dahada Jaland	transin_ca	Linear	Length (ft)	17,492	0.0	4,307		4,307	997	1,500	57	5,799
Roberts_Island	boatlaunch	Point	Count	3	100.0	300	300	0	300	. 0	0	0
Rough_and_Ready_Island	air_trans	Point	Count	1	0.0	0			İ			
		Point	Count	1	22.0	580	128	452	·			
		Point	Count	1	28.0	1,081	303	778				
	Commercial-Professional - Technical S		Count	1	44.0	215	95	120				
	Commercial-Retail Trade	Point	Count	1	30.0	656	197	459		i		
	Commercial-Wholesale Trade	Point	Count	2	25.0	5,308	1,327	3,981				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	5,111	25.0	1,687	422	1,265		- 1		
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	63,076	25.0	12,615	3,154	9,461		i		
	Gas_oil_wells	Point	Count		0.0	0			1	l		
			Count	11	19.0	13,444	2,554	10,890	1	I		
			Count	3	0.0	0				I		
		Point	Count	0.400	35.0	1,443	505	938		I		
	Petroleum Pipelines	Linear	Length (ft)	8,192	0.0	1,720	0	1,720	l	- 1		
		Point	Count	5	0.0	- 0			1	- 1		
	Rail_HAZUS`SDURS	Linear	Length (ft)	20,939	25.0	5,968	1,492	4,476	1	1		
	Residential - Duplex	Point	Count	2	45.5	576	262	314		- 1		
			Count	- 8	100.0	266	266	0]	İ		
		Point	Count	13	43.6	1,701	742	959				
Ryer Island		Point	Count	2	0.0	6,000		6,000	11,446	24,892	952	16,922
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	1,851	25.0	611	153	458				

	D // D // DDO/ N/ D //	T1 :	0. 760	44.004		0.040	2010	0.005				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	44,231	25.0	8,846	2,212	6,635	ŀ		I	
	gas_oil_production_fields	Point	Area	46	0.0	0		•			i	
	Gas_oil_wells	Point	Count	10	0.0	0					[
	Hwy_Bridge_HAZUS_SDURS	Point	Count	1	25.0	2,000	500	1,500	1		i	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	44,661	25.0	14,738	3,685	11,054				
	Residential - Manuf. Housing	Point	Count	2	100.0	96	96	0		i	1	
	Residential - Single Family Dwelling	Point	Count	23	100.0	4,386	4,386	0	11,031	1,500	15	18,1
cramento_Pocket_Area	boatlaunch	Point	Count	3	100.0	300	300	0				
	bridges_not_in_HAZUS	Point	Count	45	25.0	45,000	11,250	33,750	1		i	
	Commercial-Banks	Point	Count	80	24.0	61,080	14,659	46,421			1	
	Commercial-Entertainment and Recrea	Point	Count	64	26.0	57,759	15,017	42,742			i	
	Commercial-Medical - Office Clinic	Point	Count	2	22.0	4,839	1,065	3,774			1	
	Commercial-Personal and Repair Serv		Count	12	32.0	17,461	5,588	11,873			l l	
	Commercial-Professional - Technical S		Count	14	47.0	151,934	71,409	80,525		1	į.	
	Commercial-Retail Trade	Point	Count	4	34.0	63,311	21,526	41,785			l l	
	Commercial-Wholesale Trade	Point	Count	14	29.0	36,965	10,720	26,245	i		i i	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	100,193	25.0	33,064	8,266	24,798	1			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	536,173	25.0	107,235	26,809	80,426				
	freeport_pipe_route_preferred	Linéar	Length (ft)	6,456	0.0	101,235	20,009	00,420		1		
	Gas oil wells	Point	Count	10	0.0	<u>×</u>			ļ			
	Government - General Services		Count	21	22.0	24,520	5,394	19 126	i	1		
		Point		18	18.0	24,520	5,394	19,126	l			
	hc_ambulatory	Point	Count			0	-	-	1	1	ļ	
	hc_nursing_res	Point	Count	5	18.0	0			- 1		j	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	5	25.0	10,000	2,500	7,500	1			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	60,184	25.0	19,861	4,965	14,896	1			
	Industrial - Construction	Point	Count	4	100.0	10,382	10,382	0	1			
	Industrial - Heavy	Point	Count	9	39.0	24,585	9,588	14,997	1	i		
	Industrial - Light	Point	Count	2	37.0	6,872	2,543	4,329	1			
	NG_Pipelines	Linear	Length (ft)	18,084	0.0	5,877	0	5,877	1			
	Petroleum Pipelines	Linear	Length (ft)	16,466	0.0	3,458	0	3,458	1			
	Rail 1000 nodes	Point	Count	16	0,0	0	-	-				
	Rail HAZUS SDURS	Linear	Length (ft)	2,253	25.0	642	161	482				
	Religion - Churches and Other Non-pro	Point	Count	4	15.0	11,202	1,680	9,522				
	Residential - Duplex	Point	Count	159	48.0	46.151	22,152	23,999	l l			
	Residential - Institutional Dormitory	Point	Count	23	23.0	91,050	20,942	70,109			i i	
	Residential - Manuf, Housing	Point	Count	17	100.0	832	832	10,100				
	Residential - Multi-Dwellings - 10 to 19		Count	9	48.0	36.356	17,451	18,905	1			
	Residential - Multi-Dwellings - 20 to 49		Count	3	48.0	55,633	26,704	28,929			i	
	Residential - Multi-Dwellings - 5 to 9 ur		Count	66	48.0							
	Residential - Multi-Dwellings - 5 to 9 unit			15	48.0	112,983	54,232	58,751	- 1	1		
			Count			175,381	84,183	91,198	į			
	Residential - Single Family Dwelling	Point	Count	10,468	46.6	1,967,468	917,332	1,050,136				
	Residential - Triplex - Quads	Point	Count	174	48.0	55,698	26,735	28,963	1	1		
	Schools_HAZUS_SDURS	Point	Count	3	28.0	1,770	496	1,274	1	I	1	
	sewage_treat	Point	Count	3	30.0	200,000	60,000			I		
	superfund_sites	Point	Count	1	0.0	0		-	1	I	1	
	TankFarms	Point	Count	3	0.0	9,000	-	9,000	1	j	1	
	transin_ca	Linear	Length (ft)	48,817	0.0	12,019	-	12,019	1	, I	1	
	US_Cell_Towers	Point	Count	1	0.0	250	-	250	J	l		
	Utilities	Point	Count	2	0.0	0	-	-	1,454,879	1,724,103	13,637	141,
gent Barnhart Tract 1	Commercial-Professional - Technical S	Point	Count	2	16.0	2	0	2				. , , , , ,
	Commercial-Retail Trade	Point	Count	7	14.0	20	3	17		i	1	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	16.004	25.0	3.201	800	2,401		l		
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	10,007	0.0	1	000	10,001	ı	l	ŀ	
	Residential - Duplex	Point	Count	20	22.5	5,500	1,238	4,263	<u>l</u>	l	l	
	Residential - Duplex Residential - Multi-Dwellings - 10 to 19		Count	20	22.5	800	1,238	4,263 620	1	J	l	
	Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 5 to 9 ur			- 2	22.5		1.033		l		j	
			Count			4,592		3,559		1		
		Point	Count	2	22.5	16,448	3,701	12,747	İ	1		
	Residential - Single Family Dwelling	Point	Count	263	20.8	43,881	9,105	34,776	ļ	1		
	Residential - Triplex - Quads	Point	Count	10	22.5	3,247	731	2,516	1		1	
	Schools_HAZUS_SDURS	Point	Count	2	9.0	1,180	106	1,074	16,897	59,573	8,225	2,4
	air trans	Point	Count	1	0.0	0		•				
rgent_Barnhart_Tract 2	Commercial-Banks	Point	Count		24,0	5,454	1,309	4,145				

	Commercial-Entertainment and Recrea	Point	Count	13	26.0	13.521	3,515	10,006	1	1		I
	Commercial-Medical - Office Clinic	Point	Count	9	22.0	10,007	2,202	7,805	ı			
			Count	6	32.0	5,372	1,719	3,653				
	Commercial-Professional - Technical S		Count	4	47.0	42,071	19,773	22,298				
	Commercial-Retail Trade		Count	1	34.0	6,767	2,301	4,466	l			
	Delta Roads PBSJ Major Roads		Length (ft)	4,901	25.0	1,617	404	1,213	ı			
	Delta Roads PBSJ Minor Roads		Length (ft)	189,517	25.0	37,903	9,476	28,428	ı			İ
	gas pipeline kinder morgan LS 9	Linear	Length (ft)	13,189	0.0	2,770	0	12,770				
	hc ambulatory	Point	Count	49	18.0	0		-				
	hc hospitals		Count	1	100.0	Ö	-		l			
	hc_nursing_res		Count	2	20.0				l			
	Hwy_Bridge_HAZUS_SDURS	Point	Count	10	25.0	20,000	5,000	15,000				
	Hwy HAZUS SDURS	Linear	Length (ft)	5,361	25.0	1,769	442	1,327				!
	mokelumne aqueduct pipe	Linear	Length (ft)	39,318	0.0	196,590	14,941	181,649				
	Petroleum Pipelines		Length (ft)	13,195	0.0	2,771	14,041	2,771	į.			
	Residential - Duplex	Point	Count	60	48.0	15,748	7,559	8,189	ŀ			
	Residential - Manuf. Housing	Point	Count	14	100.0	699	699	0,100				
	Residential - Multi-Dwellings - 10 to 19		Count	- 1	48.0	7,138	3,426	3,712				
	Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 5 to 9 ur		Count	23	48.0	37,812	18,150	19,662		l		l
			Count		48.0	46,490	22,315	24,175		ļ		
			Count	2,719	46.6	571,250	266,345	304.905		Į		l
	Residential - Single Family Dwelling		Count	2,719	48.0	19,157	9,195	9,962		ŀ		l
	Residential - Triplex - Quads				13.0		9,195 460	3,080		ļ		
	Schools_HAZUS_SDURS		Count	6		3,540			l	ļ		1
	Substation_CA		Count	7 750	25.0 0.0	1,000 1,908	250	750 1,908	389,483	441,807	10,510	220,
	transin_ca		Length (ft)	7,750					J09,46J	441,007	10,510	220
argent_Barnhart_Tract 3	boatlaunch		Count	2	100.0	200	200	0	l	l		1
	Commercial-Entertainment and Recrea		Count	8	29.0	6,562	1,903	4,659	i			
	Commercial-Personal and Repair Serv		Count	2	35.0	1,252	438	814				
	Commercial-Professional - Technical S		Count	2	100.0	4,870	4,870	0				
	Commercial-Retail Trade		Count	2	38.0	300	114	186	ı			
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	2,402	25.0	480	120	360	1			
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	49.5	126	62	64	- 1			
	Residential - Multi-Dwellings - 5 to 9 ur		Count	2	49.5	1,106	547	559				
	Residential - Multi-Dwellings - 50+ unit		Count	2	49.5	460	228	232				
	Residential - Single Family Dwelling		Count	44	48.6	9,052	4,401	4,650				
	Residential - Triplex - Quads	Point	Count	2	49.5	356	176	180	13,060	11,343	8,184	
chafter-Pintail Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	26,277	25.0	5,255	1,314	3,942				
	Gas_oil_wells	Point	Count	1	0.0	0		•		I		
	Residential - Single Family Dwelling	Point	Count	3	48.6	930	452	478	1,766	478	17	3,
herman Island	boatlaunch	Point	Count	5	100.0	500	500	0				
-	Commercial-Professional - Technical S	Point	Count	2	100.0	276	276	0	ı			
	Commercial-Retail Trade		Count	2	100.0	628	628	0				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	1,522	25.0	502	126	377	ļ			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	94,036	25.0	18,807	4,702	14,105	ł			
	gas_oil_production_fields	Point	Area	530	0.0	0			ł	i		
	Gas oil wells		Count	31	0.0	Ö	- :	- :				
	Hwy HAZUS SDURS	Linear	Length (ft)	19,829	25.0	6,544	1,636	4,908	ł	I		l
	NG Pipelines	Linear	Length (ft)	65,495	0.0	12,444	.,550	12,444	ţ	l		
	NG Wells	Point	Count	33,.00	0.0	,,,,,,			į			l
	Residential - Manuf. Housing		Count	36	100.0	1.225	1,225		i i			Ì
	Residential - Multi-Dwellings - 10 to 19		Count	30	100.0	84	84	-	ļ			I
	Residential - Single Family Dwelling	Point	Count	29	100.0	4,197	4,197		ŀ			l
	transin ca	Linear	Length (ft)	21,392	0.0	6.888	4,13/	6.888	13,373	О	0	38
hima Tract				21,032	29.0	3,482	4 040	2,472	10,010	<u>~</u>		30
hima_Tract	Commercial-Entertainment and Recrea		Count				1,010		l			
	Commercial-Medical - Office Clinic	Point	Count		24.0	1,324	318	1,006	į.	i		
	Commercial-Personal and Repair Serv		Count	4	35.0	2,128	745	1,383	į			l
	Commercial-Professional - Technical S		Count	2	100.0	19,088	19,088	0 007	į			l
	Commercial-Retail Trade		Count	2	38.0	3,656	1,389	2,267	į.	1		l
	Delta_Roads_PB\$J_Minor_Roads	Linear	Length (ft)	110,815	25.0	22,163	5,541	16,622	l	l		l
	Gas_oil_wells	Point`	Count	1	0.0	0	-		ŀ			l
	hc_ambulatory	Point	Count	9	18.0	, 0	-		į.			ŀ
	hc hospitals	Point	Count	2	35.0	0	1					

	hc nursing res	Point	Count	3	15.0	0			1		1	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000		ı		
	Hwy HAZUS SDURS	Linear	Length (ft)	5,769	25.0	1,904	476	1,428		I	l	
	Residential - Duplex	Point	Count	48	49.5	13,056	6,463	6,593				
	Residential - Institutional Dormitory	Point	Count	2	26.0	7,296	1,897	5,399				
	Residential - Multi-Dwellings - 10 to 19		Count	4	49.5	8,780	4,346	4,434				
	Residential - Multi-Dwellings - 5 to 9 ur		Count	23	49.5	34,496	17,075	17,420		l l		
	Residential - Multi-Dwellings - 50+ unit		Count	3	49.5	42,396	20,986	21,410		İ		
	Residential - Single Family Dwelling	Point	Count	2,152	48.6	361,046	175,558	185,487				
	Residential - Triplex - Quads	Point	Count	61.	49.5	17,879	8,850	9,029	•			
	Schools_HAZUS_SDURS	Point	Count	2	9.0	1,180	106	1,074		l		
	transin_ca	Linear	Length (ft)	19,639	0.0	4,835	-	4,835	264,848	260,975	5,695	22,885
Shin_Kee_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,786	25.0	757	189	568				
	Gas_oil_wells	Póint	Count	4	0.0	0	-	-		l		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,258	25.0	1,405	351	1,054		į.	1	
	transin_ca	Linear	Léngth (ft)	17,300	0.0	4,259	-	4,259	541	0	0	5,88
Simmons-Wheeler_Island	Residential - Single Family Dwelling	Point	Count	3	46.6	423	. 197	226	197	226	6	(
SM-123	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	4,064	25.0	1,341	335	1,006				
		Linear	Length (ft)	21,125	25.0	4,225	1,056	3,169		ļ	l	
	Gas_oit_wells	Point	Count	3	0.0	0		•	- 1	l		
		Point	Count	9	25.0	18,000	4,500	13,500	l	l	l	
	Hwy_HAZUS_SDURS	Lìnear	Length (ft)	2,607	25.0	860	215	645	l	l	l	
	Intermodal_terminal_facilities	Point	Count	3	0.0	0		-	1	ļ		
	NG_Pipelines	Linear	Length (ft)	2,480	0.0	818	0	818			1	
	Petroleum Pipelines	Linear	Length (ft)	3,046	0.0	640	Ó	640		l		
	Rail_1000_nodes	Point	Count	3	0.0	Ó	-	•]	
	Rail_HAZUS_SDURS	Linear	Length (ft)	3,085	25.0	879	220	659		l l	1	
	Residential - Single Family Dwelling	Point	Count	26	39.1	3,304	1,293	2,011			i	
	Residential - Triplex - Quads	Point	Count	3	43.0	678	292	386			i	
	transin_ca	Linear	Length (ft)	5,315	0.0	1,309	-	1,309	7,911	15,898	372	8,24
SM-124	Commercial-Entertainment and Recrea	Point	Count	6	22.0	8,177	1,799	6,378				
	Commercial-Personal and Repair Serv	Point	Count	5	28.0	7,680	2,150	5,530			1	
	Commercial-Professional - Technical S	Point	Count	2	44.0	20,154	8,868	11,286				
	Commercial-Retail Trade	Point	Count	2	30.0	13,376	4,013	9,363		- 1		
	Commercial-Wholesale Trade	Point	Count	2	25.0	3,434	859	2,576		1		
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	8,486	25.0	2,800	700	2,100				
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	70,817	25.0	14,163	3,541	10,623	1	1		
	Gas_oil_wells	Point	Count	1	0.0	0		-				
	Government - General Services	Point	Count	3	19.0	3,803	722	3,080				
	hc_ambulatory	Point	Count	6	16.0	0		<u> </u>	•			
	hc_nursing_res	Point	Count	2	18.0	0	-	-		1		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000	1	1		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,224	25.0	1,394	348	1,045	ŀ	1		
	NG_Pipelines	Linear	Length (ft)	4,078	0.0	775	Ö	775			ŀ	
	Petroleum Pipelines	Linear	Length (ft)	38,776	0.0	8,143	Ö	8,143	* [1		
		Point	Count	2	15.0	3,304	496	2,808	ŀ	1	j	
	Rail_1000_nodes	Point	Count	6	0.0	Õ	- []	1		
	Rail Facility HAZUS SDURS	Point	Count	2	25.0	5,145	1,286	3,859		1		
	Rail_HAZUS_SDURS	Linear	Length (ft)	29,823	25.0	8,500	2,125	6,375	1	1		
		Point	Count	30	45.5	8,851	4,027	4,824		1	l	
	Residential - Manuf. Housing	Point	Count	77	100.0	2,675	2,675	0	ŀ	- 1		
	Residential - Multi-Dwellings - 10 to 19		Count	2	45.5	4,392	1,998	2,394	i	i		
	Residential - Multi-Dwellings - 5 to 9 ur		Count	2	45.5	10,066	4,580	5,486		į		
	Residential - Multi-Dwellings - 50+ unit		Count	2	45.5	11,618	5,286	6,332		- 1		
		Point	Count	765	43.6	132,169	57,659	74,511		1		
	Residential - Triplex - Quads	Point	Count	53	45.5	15,399	7,006	8,392	1	1		
	Schools_HAZUS_SDURS	Point	Count	. 5	11.0	2,950	325	2,626		I	l	
	sewage_treat	Point	Count	3	30.0	262,500	78,750	-	1	l		
	Substation_CA	Point	Count	<u>' 1</u>	25.0	1,000	250	750		1		
	transin_ca '	Linear	Length (ft)	13,590	0.0	3,346	•	3,346	190,464	153,193	2,698	32,40
SM-132	Gas oil wells	Point	Count	1	0.0	. 0	•	-	· T			·
OII. 10E												

SM-133	gas oil production fields	Point /	Area	204	0.0	0	1		1			
SIVI-133	Gas oil wells		Count	9		0			ا ا	0	0	
SM-134	gas oil production fields		Area	1		0			i i			
3181-134	Gas oil wells		Count	1	0.0	0			i ol	0	0	
SM-198	Commercial-Retail Trade		Count	2		2		7				
3 W-130	Delta Roads PBSJ Minor Roads		Length (ft)	5,019	25.0	1.004		753	1			
	Gas oil wells		Count	3,013	0.0	1,004	201	100	1 1			
	NG Pipelines		Length (ft)	4,380	0.0	832	0	832	i I			
	Petroleum Pipelines		Length (ft)	5,484	0.0	1.152			1 1			
	Rail HAZUS SDURS		Length (ft)	1,009	25.0	288		216	i i			
	Residential - Multi-Dwellings - 10 to 19		Count	1,000	100.0	38		210	i i			
	Residential - Single Family Dwelling		Count	7	100.0	1,133		ŏ	1,494	1	0	2,95
SM-199	Communication HAZUS SDURS		Count	2	100.0	236		0				
3M-133	Delta Roads PBSJ Minor Roads		Length (ft)	5,164	25.0	1.033		775	1 1			
	Residential - Multi-Dwellings - 10 to 19		Count	3,104	49.5	20		10	1 1	1		
	Residential - Single Family Dwelling		Count	3	48.6	675		347	832	357	221	77:
SM-202	Residential - Single Family Dwelling		Count	2		330		176	154	176	10	
SM-39			Count	2	38.0	92		57	107	110		
31VI-33	Commercial-Retail Trade		Count	2	23.0	254		196	1			
	Delta Roads PBSJ Major Roads		Length (ft)	4,675	25.0	1,543		1,157	}	1		
				17,230	25.0	3,446		2,585	ł I			
	Delta_Roads_PBSJ_Minor_Roads Hwy_Bridge_HAZUS_SDURS		Length (ft) Count	17,230	25.0	8,000		6,000				
	Rail HAZUS SDURS		Length (ft)	3,727	25.0	1.062		797	ł I			
	Residential - Single Family Dwelling			3,727	37.0	1,545		974	ł i	1		
	transin ca		Count Length (ft)	13,355	0.0	3,288		3,288	4.178	7,226	357	7,82
SM-40	Delta Roads PBSJ Minor Roads			7,779	25.0	1,556		1,167	389	7,220	337	1,16
			Length (ft)					1,107	309			1,10
SM-41	Commercial-Professional - Technical S		Count	1	47.0 34.0	36	· · · · · · · · · · · · · · · · · · ·	1	1			
	Commercial-Retail Trade		Count	070		75		24 56	ł I			
	Delta_Roads_PBSJ_Minor_ Roads		Length (ft)	373	25.0			2.114	1	- 1		
	Petroleum Pipelines		Length (ft)	10,067	0.0 25.0	2,114 1,587	0 397	2,114 1,190	429	25	13	3,36
O14 40	Rail_HAZUS_SDURS		Length (ft)	5,569					429	25	10	3,30
SM-42	Substation_CA		Count	3,060	25.0 0.0	1,000 753		750 753	250	750	366	75
A	transin_ca		Length (ft)					/53	200	750	300	/5
SM-43	gas_oil_production_fields		Area	80		0		-	[]			
	Gas_oil_wells		Count	4 2	0.0 43.6	0 336		189	447	400	4.4	
	Residential - Single Family Dwelling		Count	_					147	189	14	
SM-44	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	15,129	25.0	3,026		2,269	1			
	Residential - Single Family Dwelling		Count	10	39.1	1,949		1,186		4 400	404	0.50
	transin_ca		Length (ft)	5,355	0.0	1,318		1,318	1,519	1,186	131	3,58
SM-46	Commercial-Retail Trade		Count	1	38.0	3		2		_	_	
	Delta_Roads_PBSJ_Minor_ Roads		Length (ft)	2,339	25.0	468		351	118	2	0	35
SM-47	solid_waste_facilities		Count	1	25.0	0		-	0	0	0	
SM-48	Commercial-Entertainment and Recrea		Count	1	26.0	720		533				
	Commercial-Professional - Technical S		Count	1	47.0	839		445	l l			
	Commercial-Retail Trade		Count	2	34.0	14,924	5,074	9,850	į i			
	Gas_oil_wells		Count	2	0.0	0	-]			
	Petroleum Pipelines		Length (ft)	20,676	0.0	4,342			l l			
	Rail_HAZUS_SDURS		Length (ft)	9,923	25.0	2,828		2,121	6,363	10,827	245	6,46
SM-49	Commercial-Entertainment and Recrea		Count	2	26.0	1,768		1,308				
	Commercial-Professional - Technical S		Count	2	47.0	7,210		3,821				
	Commercial-Retail Trade		Count	2	34.0	7,884		5,203	<u> </u>			
	Commercial-Wholesale Trade		Count	3	29.0	5,405		3,837	<u> </u>			
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	22,129	25.0	4,426		3,319	j i			
	Hwy_HAZUS_SDURS		Length (ft)	3,040	25.0	1,003	251	752	<u> </u>			
	Industrial - Light		Count	2	37.0	4,072		2,565]			
	Petroleum Pipelines	Linear I	Length (ft)	19,582	0.0	4,112		4,112]			
	Rail_HAZUS_SDURS	Linear L	Length (ft)	9,852	25.0	2,808		2,106] [
	Residential - Single Family Dwelling		Count	11	46.6	2,329	1,086	1,243	12,748	17,979	497	10,29
SM-51	gas_oil_production_fields	Point A	Area	3	0.0	0	-	-	0	0	0	
SM-52	Commercial-Retail Trade	Point (Count	2	26.0	122	32	90				
2141-27												

1	9 6-14-	In-t-1	TA	400	0.01				1 1			1
	gas oil production fields Gas oil wells	Point Point	Area Count	188		0						
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000	1			
	Hwy HAZUS SDURS	Linear	Length (ft)	686	25.0	226	57	170		l		
	Residential - Multi-Dwellings - 10 to 19		Count	2	43.0	6	37	170	!			İ
	Residential - Single Family Dwelling	Point	Count	4		611	239	372	1,825	3,465	177	1,65
SM-53	Commercial-Retail Trade	Point	Count	1	18.0	28	5	23	1,020	0,100		
OM-00	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	53		11	3	8	i i	1		
	gas oil production fields	Point	Area	177		0	<u>.</u> `		f I			
	Gas oil wells	Point	Count	3	0.0	0		-	1			
	Residential - Multi-Dwellings - 10 to 19		Count	1	28.5	Ť	0	1	8	24	6	
SM-54	Commercial-Personal and Repair Serv		Count	3	28.0	4,068	1,139	2,929				
1	Commercial-Professional - Technical S		Count	2	44.0	10.930	4,809	6,121				
	Commercial-Retail Trade	Point	Count	2	30.0	10.576	3,173	7,403	1			
	Commercial-Wholesale Trade	Point	Count	7	25.0	17,206	4,302	12,905	1			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	3,187	25.0	1,052	263	789				ł
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	31,137	25.0	6,227	1,557	4,671	! I			ļ .
	Gas oil wells	Point	Count	1	0,0	0	-	-	1			•
	Hwy_Bridge_HAZUS_SDURS	Point	Count	4	25.0	8,000	2,000	6,000		1		l
	Hwy HAZUS SDURS	Linear	Length (ft)	2,346		774	194	581		1		l
•	Industrial - Construction	Point	Count	2	100.0	8,550	8,550	Ó		1		l
	Industrial - Heavy	Point	Count	4	35.0	14,320	5,012	9,308		1		ŀ
	NG Pipelines	Linear	Length (ft)	460	0.0	87	0	87		1		ł
	Petroleum Pipelines	Linear	Length (ft)	25,987	0.0	5,457	. 0	5,457				•
	Rail_1000_nodes	Point	Count	6	0.0	Ò	-		1			
	Rail_Facility_HAZUS_SDURS	Point	Count	2	25.0	5,145	1,286	3,859				
	Rail_HAZUS_SDURS	Linear	Length (ft)	38,418	25.0	10,949	2,737	8,212				1
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	45.5	4	2	2				
	Residential - Multi-Dwellings - 50+ unit	Point	Count	2	45.5	18	. 8	10				
	Residential - Single Family Dwelling	Point	Count	11		2,364	1,031	1,332		Į.		
	solid_waste_facilities	Point	Count	2		Q	•	-	36,062	49,869	1,030	19,79
SM-55	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	18,625	25.0	3,725	931	2,794				
	NG_Pipelines	Linear	Length (ft)	4,433	0.0	842	. 0	842		ŀ		
	Petroleum Pipelines	Linear	Length (ft)	4,261	0.0	895	0	895				
	Residential - Single Family Dwelling	Point	Count	3	100.0	530	530	0	1,461	0	0	4,53
SM-56	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	7,016	25.0	1,403	351	1,052				
	Gas_oil_wells	Point '	Count	2	0.0	0	•					
	NG_Pipelines	Linëar	Length (ft)	4,638	0.0	881	0	881				
	Petroleum Pipelines	Linear	Length (ft)	3,101		651	0	651				
		Point	Count	4		769	359	411	710	411	6	2,58
SM-57	bridges_not_in_HAZUS	Point	Count	2	25.0	2,000	500	1,500				
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	37		12	3	9				
		Linear	Length (ft)	12,785		2,557	639	1,918				
	hc_ambulatory	Point	Count	3	14.0	0		-				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	2,242	25.0	740	185	555				
	NG_Pipelines	Linear	Length (ft)	5,916	0.0	1,124	0	1,124				
	Residential - Single Family Dwelling	Point	Count	25	37.0	5,583	2,066	3,517		1		
	solid_waste_facilities	Point	Count	2	25.0	0	-	-		i		
	transin_ca	Linear	Length (ft)	11,666	0.0	2,872	•	2,872				
	water_trans	Point	Count	2	0.0	0		-	4,393	8,017	215	
SM-58	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	3,841	25.0	768	192	576	192	0	0	57
SM-59	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	377	25.0	75	19	57				
	gas_oil_production_fields	Point	Area	205	0.0	0	-	-				
	Gas_oil_wells	Point	Count	6		0	-	-				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,382	25.0	1,446	362	1,085	 			
	Residential - Single Family Dwelling	Point	Count	2	37.0	326	121	205	501	205	7	1,14
SM-60	Commercial-Entertainment and Recrea	Point	Count	2	16.0	2,362	378	1,984			· · · · · · · · · · · · · · · · · · ·	
	Commercial-Personal and Repair Serv		Count	2	19.0	800	152	648		1		
	Commercial-Professional - Technical S		Count	. 2	35.0	3,336	1,168	2,168		1		
	Commercial-Retail Trade	Point	Count	2	20.0	1,190	238	952		ŀ		I
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	5,186	25.0	1,037	259	778				

!	Gas oil wells	Point	Count	3	0.0	n n				1	ı	
	Hwy Bridge HAZUS SDURS	Point	Count	3	25.0	4,000	1,000	3,000		- 1		
		Point	Count	3	32.6	435	142	293	3,337	9.046	387	. 77
SM-84	Commercial-Retail Trade	Point	Count	2	42.0	156	66	90	0,007	3,040	307	
0111-04	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	52,725	25.0	10,545	2,636	7,909		1		
	gas oil production fields	Point	Area	10	0.0	10,545	2,030	1,505		- 1		
	Gas oil wells	Point	Count	4	0.0	0		<u>-</u>				
	Residential - Single Family Dwelling	Point	Count	10	100.0	1,964	1.964	- 	4,666	90	1	7,90
SM-85-Grizzly Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	54,921	25.0	10.984	2,746	8,238	4,000	30		7,90
OM-00-OHEEIY_ISIANG	gas oil production fields	Point	Area	188	0.0	10,984	4,740	0,230				
	Gas oil wells	Point	Count	11	0.0	0						
	NG Pipelines	Linear	Length (ft)	28,158	0.0	5,350	- 0	5,350				
	Petroleum Pipelines	Linear	Length (ft)	2,326	0.0	488	<u> </u>	488				
	Residential - Single Family Dwelling	Point	Count	2,326	43.6	1.365	595	770	3.342	770	10	44.07
Smith Trant									3,342	770	10	14,07
Smith_Tract	Commercial-Entertainment and Recrea		Count	4 2	16.0	2,885	462	2,423				
	Commercial-Personal and Repair Serv		Count	2	19.0	2,505	476	2,029				
	Commercial-Professional - Technical S		Count	1	35.0	2,354	824	1,530			i	
	Commercial-Retail Trade	Point	Count	1	20.0	3,782	756	3,026			ŀ	
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	11,771	25.0	3,884	971	2,913		ł	l	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	157,829	25.0	31,566	7,891	23,674		1	ŀ	
	hc_ambulatory	Point	Count	4	14.0	0		-	ŀ	1	l	
	hc_nursing_res	Point	Count	1	23.0	0				i	1	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	5	25.0	10,000	2,500	7,500	1	1	1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,181	25.0	1,380	345	1,035		1	I	
	Religion - Churches and Other Non-pro		Count	1	12.0	1,680	202	1,478	1		1	
	Residential - Duplex	Point	Count	29	32,0	7,938	2,540	5,398		İ	l	
	Residential - Manuf. Housing	Point	Count	14	100.0	527	527	0	i		1	
	Residential - Multi-Dwellings - 10 to 19		Count	3	32.0	7,943	2,542	5,401			ľ	
	Residential - Multi-Dwellings - 20 to 49		Count	1	32.0	15,653	5,009	10,644			I	
	Residential - Multi-Dwellings - 5 to 9 ur		Count	3	32.0	7,256	2,322	4,934	ŀ	•	l	
	Residential - Multi-Dwellings - 50+ unit		Count	3	32.0	32,439	10,380	22,059	l l			
	Residential - Single Family Dwelling	Point	Count	3,058	32.6	509,613	166,261	343,352				
	Residential - Triplex - Quads	Point	Count	10	32.0	5,428	1,737	3,691		i		
	Schools_HAZUS_SDURS	Point	Count	2	10.0	1,180	118	1,062	205,863	414,527	17,417	27,62
Stark_Tract	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	1,602	25.0	320	80	240				
	Gas_oil_wells	Point	Count	1	0.0	0	-			į.		
	NG_Pipelines	Linear	Length (ft)	4,944	0.0	939	0	939		ı		
	Residential - Single Family Dwelling	Point	Count	12	48.6	1,992	969	1,023		į.	1	
	transin_ca	Linear	Length (ft)	14,137	0.0	3,481	-	3,481	1,049	1,023	66	4,660
Staten_island	Commercial-Retail Trade	Point	Count	3	100.0	369	369	0		·····························		
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	4,422	25.0	1,459	365	1.094				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	45,950	25.0	9,190	2,298	6,893	ŀ	1		
	gas oil production fields	Point	Area	1,092	0.0	O	-			1		
	Gas_oil_wells	Point	Count	20	0.0	0	-		1	1	1	
	NG Pipelines	Lińear	Length (ft)	14,654	0.0	3,810	0	3,810	İ	l	į	
	NG Wells	Point	Count	3	0.0	0,0,0		-,5.0		ĺ	į	
	Residential - Manuf. Housing	Point	Count	12	100.0	366	366	0	i	ŀ		
		Point	Count	6	100.0	576	576	.0	3.973	٥	n	11,79
Stewart Tract	Commercial-Professional - Technical S		Count	1	44.0	143	63	80	5,576			11,10
	Commercial-Retail Trade	Point	Count	1	30.0	486	146	340	ŀ	- 1		
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	29,052	25.0	5,810	1,453	4,358		- 1		
	Gas oil wells	Point	Count	23,002	0.0	0,010	1,703	+,550	-	l		
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500		į.	1	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	4,513	25.0	1,489	372	1,117	1	į.	1	
	Rail HAZUS SDURS	Linear	Length (ft)	4,671	25.0	1,331	333	998	1	į	I	
		Point	Count	10	100.0	374	374	998		Į.	İ	
		Point	Count		45.5	121	374 55		ŀ	- 1		
		Point		49				66		1	1	
	transin_ca	Linear	Count		43.6 0.0	8,518	3,716	4,802	أنبوو	0.700	,	4
iutter Island			Length (ft)	20,855		5,135		5,135	8,011	9,788	144	11,60
outter island	Delta Roads PBSJ Major Roads	Linear	Length (ft)	3,515	25.0	1,160	290	870	1	j		
	Delta_Roads_PBSJ_Minor_Roads Gas_oil_wells	Linear Point	Length (ft) Count	61,390	25.0	12,278	3,070	9,209	l		i	
				5	0.0	O E						

	•										,	
	Hwy_HAZUS_SDURS		ength (ft)	5,146	25.0 100.0	1,698	425 35	1,274	1	i		
	Residential - Manuf. Housing		Count	1	100.0	35 299	299	0				
	Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 50+ unit		Count	1	100.0	79	79					
	Residential - Single Family Dwelling		Count	33	100.0	6,013	6,013	0	10.210	n	0	11.35
	Commercial-Professional - Technical S		Count	33	38.0	0,010	0,010	5	10,210			11,00
Terminous_Tract 1	Commercial-Professional - Technical S		Count	4	23.0	32	7	25				
				1,548	25.0	511	128	383				
	Delta_Roads_PBSJ_Major_Roads		ength (ft)	23.024	25.0	4,605	1,151	3,454				
	Delta_Roads_PBSJ_Minor_Roads		ength (ft)		0.0	4,605	1,131	3,434				
	gas_oil_production_fields		rea	28 3	0.0	- 0						
	Gas_oil_wells			3	25.0	8,000	2,000	6,000				
	Hwy_Bridge_HAZUS_SDURS		Count	4 075	25.0	1,411		1,058				
	Hwy_HAZUS_SDURS		ength (ft)	4,275			353 0					
	NG_Pipelines		ength (ft)	651	0.0	150 847	•	150				
	Residential - Manuf. Housing		ount	23	100.0 37.0	1,420	847		1			
	Residential - Single Family Dwelling		ount	. 8			525	895				
	Schools_HAZUS_SDURS		Count	0.057	10.0	2,360	236	2,124	5 254	0.040	222	7.0
	transin_ca		ength (ft)	8,057	0.0	1,984	-	1,984	5,251	9,048	333	7,0
erminous_Tract 2	Agriculture		Count	5	100.0	4,765	4,765	0				
	boatlaunch		ount	5	100.0	500	500	0				
	Commercial-Professional - Technical S		ount	5	100.0	360	360	0		l		
	Commercial-Retail Trade		Count	5	100.0	1,770	1,770	<u> </u>				
	Commercial-Wholesale Trade		Count	5	100.0	8,050	8,050	0			i	
	Delta_Roads_PBSJ_Major_ Roads		ength (ft)	2,781	25.0	918	229	688				
	Delta_Roads_PBSJ_Minor_Roads	Linear L	ength (ft)	256,731	25.0	51,346	12,837	38,510				
	gas_oil_production_fields		réa	303	. 0.0	0	- 1				*	
	Gas_oil_wells	Point C	Count	9	0.0	0	-	-	į.			
	Hwy_Bridge_HAZUS_SDURS	Point C	Count	5	25.0	10,000	2,500	7,500	į			
	Hwy_HAZUS_SDURS	Linear L	ength (ft)	4,771	25.0	1,574	394	1,181				
	NG_Wells	Point C	ount	1	0.0	0	,		l l			
	Residential - Duplex	Point C	ount	5	100.0	1,810	1,810	, 0				
	Residential - Manuf. Housing	Point C	Count	544	100.0	18,545	18,545	. 0	į.			
	Residential - Single Family Dwelling	Point C	Count	216	100.0	29,210	29,210	. 0				
	US_Cell_Towers	Point C	Coùnt	5	0.0	1,250	-	1,250	80,970	8,750	96	40,3
erminous Tract 3	Delta Roads PBSJ Minor Roads	Linear Le	ength (ft)	1,060	25.0	212	53	159				
_	Residential - Manuf. Housing		ount	30	100.0	986	986	0	ŀ			
	Residential - Single Family Dwelling	Point C	ount	13	48.6	1,573	765	808	1,804	808	399	1:
witchell Island	Delta Roads PBSJ Minor Roads	Linear Le	ength (ft)	31,601	25.0	6,320	1,580	4,740				
-	gas oil production fields		rea	1,407	0.0	0			ŀ			
	Gas oil wells		ount	22	0.0	Ó			ľ			
	NG Pipelines		éngth (ft)	6,373	0.0	1,466	0	1,466				
	NG Wells		count	9	0.0	0		- 1,100				
	Residential - Duplex		Count	2	100.0	364	364	0		•		
	Residential - Manuf, Housing		Count	31	100.0	1.082	1.082	ŏ		1		
	Residential - Multi-Dwellings - 10 to 19		Count	2	100.0	64	64					
	Residential - Single Family Dwelling		ount	28	100.0	3,744	3,744	0	ļ	l		
	Residential - Triplex - Quads		ount	20	100.0	270	270		7,104	o	. 0	6,20
yler Island 2	airport points		ount		25.0	2,0	210		7,104	<u>"</u>		0,2
yici_iaidilu Z	Airports HAZUS SDURS		Count	<u></u>	25.0 25.0	6,431	1,608	4,823	J	I		
				<u> </u>								
	Delta Roads PBSJ Major Roads		ength (ft)	5,160	25.0	1,703	426	1,277	1	l		
	Delta Roads_PBSJ_Minor_Roads		ength (ft)	132,666	25.0	26,533	6,633	19,900	- 1	j		
	gas_oil_production_fields		rea	2,107	0.0	Ų			1	ļ		
	Gas_óil_wells		ount	45	0.0	0		455	Į			
	Hwy_Bridge_HAZUS_SDURS		oùnt	1	25.0	2,000	500	1,500	Į.	l		
	NG_Pipelines		ength (ft)	14,527	0.0	3,051		3,051	J			
	NG_Wells		ount	4	0.0	0		•	1	l		
	Residential - Manuf. Housing		òunt	1	100.0	106	106	0		I		
	Residential - Single Family Dwelling		ount	13	100.0	2,321	2,321	0		I		
	Runway_HAZUS_SDURS		count	1	25.0	36,674	9,169	27,506		l		
	solid_waste_facilities		ount	1	25.0	. 0			20,762	33,829	309	24,22
nion_Island 1	Dams_HAZUS_SDURS		count	1	0.0	0	-	•				
	Delta Roads PBSJ Major Roads	Linear Le	ength (ft)	6,457	25.0	2.131	533	1,598	1			

										_	-	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	242,177	25.0	48,435	12,109	36,327			Ī	
	gas_oil_production_fields	Point	Area	226	0.0	0	-					
	Gas_oil_wells	Point	Count	13	0.0	0						
	NG_Pipelines	Linear	Length (ft)	17,354	0.0	3,297	0	3,297				
	NG_Wells	Point	Count	4 11	0.0 100.0	0 356	356			l l		
	Residential - Manuf. Housing	Point Point	Count Count	54	100.0	8,465	8,465	- 				
	Residential - Single Family Dwelling transln ca	Linear	Length (ft)	29,471	0.0	7,256	0,400	7.256	21,463	0	0	48,478
Union Island 2	Delta Roads PBSJ Minor Roads			1,163	25.0	233	58	174	21,403			40,470
Union_island 2		Linear	Length (ft)	1,103	0.0	233		1/4			l	
	gas_oil_production_fields NG_Pipelines	Point Linear	Area Length (ft)	2,583	0.0	491	0	491	58	o	0	665
Union Joland 2				8,039	25.0	1,608		1,206	56			000
Union_Island 3	Delta_Roads_PBSJ_Minor_Roads Gas_oil_wells	Linear Point	Length (ft) Count	6,039	0.0	1,608		1,200				
	NG Pipelines	Linear	Length (ft)	6.943	0.0	1,319		1:319				
	Residential - Single Family Dwelling	Point	Count	0,543	46.6	694	324	370			l	
	transin ca	Linear	Length (ft)	14,550	0.0	3,582	324	3,582	726	370	22	6,107
Union Island 4	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	6.881	25.0	1,376	344	1,032	720	3/0	22	0,107
Officisatio 4	gas oil production fields	Point	Area	70	0.0	1,370	344	1,032		1		
	Gas oil wells	Point	Count	10	0.0	0	 		l			
	NG Pipelines	Linear	Length (ft)	1,029	0.0	196	<u></u>	196	344	o	ما	1,228
Upper_Roberts_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	161,666	25.0	32,333	8,083	24,250	V7-7			1,220
obbei Tropei ra Taignin	gas oil production fields	Point	Area	849	0.0	02,000	0,000	24,230				
	Gas oil wells	Point	Count	23	0.0	0			ļ.		1	
	Hwy_Bridge_HAZUS_SDURS	Point	Count	3	25.0	6,000	1,500	4,500				
	Nat Gas HAZUS SDURS	Point	Count	1	0.0	1,286	1,000	1,286		I	1	
	NG_Pipelines	Linear	Length (ft)	13,507	0.0	2,566	<u> </u>	2,566			1	
	NG Wells	Point	Count	17		2,000	<u>-</u>	2,000		1	•	
	Residential - Manuf. Housing	Point	Count	8		221	221	0			1	
	Residential - Single Family Dwelling	Point	Count	62	37.0	10,671	3,948	6,723				
	transin ca	Linear	Length (ft)	27,815	0.0	6,848	- 0,0.0	6,848	13,753	12,509	159	33,665
Van Sickle Island	gas oil production fields	Point	Area	149	0.0	0						
	Gas oil wells	Point	Count	6		0		-				
	Residential - Single Family Dwelling	Point	Count	2		391	391	0				
	sewage treat	Point	Count	1	30.0	100,000	30,000	-	30,391	o	o	0
Veale_Tract 1		Point	Count	1	100.0	156	156	0				
-	Commercial-Retail Trade	Point	Count	1	42.0	49		28			i	
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	2,069	25.0	414	103	310	Į.		1	
	gas oil production fields	Point	Area	85	0.0	0		-	j			
	Gas oil wells	Point	Count	4	0.0	0	-	-			i	
	Residential - Manuf. Housing	Point	Count	4	100.0	151	151	0			i	
	Residential - Single Family Dwelling	Point	Count	25	100.0	5,251	5,251	0	1		1	
	transin_ca	Linear	Length (ft)	14,590	0.0	4,698	•	4,698	5,682	28	1	5,008
Veale_Tract 2	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	2,270	25.0	454	114	341				
	NG Pipelines	Linear	Length (ft)	8		2	0	2	l			
	Residential - Institutional Dormitory	Point	Count	20		71,700	12,906	58,794	i		1	
	Residential - Single Family Dwelling	Point	Count	39	39.1	8,268	3,235	5,033	16,254	63,827	10,973	342
Venice_Island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	62,979	25.0	12,596	3,149	9,447				
	Gas_oil_wells	Point	Count	3	0.0	0	-	-			ŀ	
	Residential - Manuf. Housing	Point	Count	2	100.0	30	30	0	3,179	o	0	9,447
Victoria_island	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	66,425	25.0	13,285	3,321	9,964				
_	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,688	25.0	1,877	469	1,408]			
	NG_Pipelines	Linear	Length (ft)	9,171	0.0	1,742	0	1,742		i	l	
	Residential - Institutional Dormitory	Point	Count	2	100.0	8,025	8,025	0	1	i	l	
	Residentiál - Manuf, Housing	Point	Count	1	100.0	25	25	0	1	I	1	
	Residential - Single Family Dwelling	Point	Count	3	100.0	764	764	0	1	l		
	transin_ca	Linear	Length (ft)	9,614	0.0	3,095	•	3,095	12,605	0	0	16,209
Walnut_Grove	Commercial-Professional - Technical S	Point	Count	2	100.0	554	554	0				
	Commercial-Retail Trade	Point	Count	2		288	288	0	1	l		
	Communication_HAZUS_SDURS	Point	Count	5	100.0	590	590	0	1	ŀ	1	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	3,282	25.0	1,083	271	812	ı	ļ	l	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	34,283	` 25.0	6,857	1,714	5,142	l			
	gas oil production fields	Point	Area	280	0.0	0						

1	Gas oil wells	Point	Count	5	0.0	n			1 1		ı	1 1
	hc ambulatory	Point	Count	2		0		-	i .			
	Hwy Bridge HAZUS SDURS	Point	Count	3		6,000	1.500	4,500	i I			
	Residential - Duplex	Point	Count	21		5,930	5,930	4,300				
	Residential - Manuf, Housing	Point	Count	11		435	435	0	i I			
	Residential - Single Family Dwelling	Point	Count	203		36,236	36,236	0	47,518	4,500	430	5,955
Walthal_Tract	Commercial-Retail Trade	Point	Count	200	34.0	64	22	42	177,010	1,000	100	0,000
Waithai_Hact	Delta Roads PBSJ Major_Roads	Linear	Length (ft)	5,330		1,759	440	1,319	l .			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	29,639		5,928	1,482	4,446	[.}
	gas oil production fields	Point	Area	409		3,920	1,402	4,440				
	Gas oil wells	Point	Count	9	0.0	0						
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	NG Pipelines	Linear	Length (ft)	2,033	0.0	661	1,000	5,000				
	NG Wells	Point	Count	2,000	0.0	- 551	· · · · · · · · · · · · · · · · · · ·		1			
		Point		37		1,351	1,351	0				
	Residential - Manuf. Housing		Count Count	2	48.0	86	41	45				
	Residential - Multi-Dwellings - 50+ unit		Count	138		24,182	11,275	12,907			ŀ	
	Residential - Single Family Dwelling	Point Linear		3,992	0.0	983	11,275	983	15,611	15,994	374	7,409
W-4 01	transin_ca		Length (ft)	3,992	0.0			903				7,409
Water Canal	gas_oil_production_fields	Point	Area	7		0 074	-	4 455	0	0	#VALUE!	<u> </u>
Water Zone 1		Point	Count	2	37.0	2,374	878	1,496	l		l	
	Commercial-Professional - Technical S		Count	2	100.0	3,648	3,648	0			l	
	Commercial-Retail Trade	Point	Count	2 100	47.0	1,378	648	730				
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	3,426		1,131	283	848			1	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	29,437	25.0	5,887	1,472	4,416	l			
	gas_oil_production_fields	Point	Area	87		. 0	-		i I			
	Gas_oil_wells	Point	Count	3	0.0	0		-				
	Hwy HAZUS SDURS	Linear	Length (ft)	20,349		6,715	1,679	5,036				
	NG_Pipelines	Linear	Length (ft)	546		153	0	153				
	Petroleum Pipelines	Linear	Length (ft)	138	0.0	29	0	29				
	Rail_HAZUS_SDURS	Linear	Length (ft)	25		. 7	2	5				
	Residential - Multi-Dwellings - 10 to 19		Count	2	100.0	128	128	0	1			
	Residential - Multi-Dwellings - 50+ unit		Count	2	100.0	510	510	, 0				
	Residential - Single Family Dwelling	Point`	Count	36		7,903	7,903	. 0				
	transin_ca	Linéar	Length (ft)	407	0.0	100	-	100	17,150	2,226	#VALUE!	10,587
Water Zone 2		Point	Count	2	100.0	10	10	0				l
	Commercial-Retail Trade	Point	Count	2	38.0	4	2	2			1	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1	25.0	0	0	0			1	
	Delta Roads_PBSJ_Minor_Roads	Linear	Length (ft)	17		3	1	3				l l
	gas_oil_production_fields	Point	Area	36		0		-				
	Rail_HAZUS_SDURS `	Linear	Length (ft)	1	25.0	0		0				
	transin_ca	Linear	Length (ft)	1	0.0	0		0	13	2	#VALUE!	3
Water Zone 3	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	1	25.0	0		0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1	25.0	0	0	0				
	gas_oil_production_fields	Point	Area	128	0.0	0		-				
	transin_ca`	Línéar	Length (ft)	1	0.0	0	-	. 0	0	0	#VALUE!	1
Water Zone 4	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	59		12	3	9				
	gas_oil_production_fields	Point	Area	4	0.0	0						
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	1	0.0	0	0	10,000				
	transln_ca	Linear	Length (ft)	1	0.0	0	-	0	3	0	#VALUE!	9
Water Zone 5	Delta Roads PBSJ Major Roads	Linear	Length (ft)	1	25.0	0	0	0				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	1	25.0	0	0	0			1	
	gas_oil_production_fields	Point	Area	4	0.0	0	-	-				l l
	transin_ca	Linear	Length (ft)	(ft) 1 0.0 0 - 0 0 #VAL	#VALUE!	1						
Webb_Tract	gas_oil_production_fields	Point	Area	83		0						
	Gas_oil_wells	Point	Count	10	0.0	0	0 -					
	NG Pipelines	Linear	Length (ft)	1,292	0.0	245	0	245	l i			l
	NG_Wells	Point	Count `	1	0.0	O'	-	-	0	0	0	245
West Sacramento North	Agriculture	Point	Count '	2	100.0	5,538	5,538	0				
	airport_points	Point	Count	3	25.0	0	-	-				
	boatlaunch	Point	Count	2	100.0	200	200	0				
	bridges not in HAZUS	Point	Count	6		6,000	1,500	4,500	<u>500</u>			
	Commercial-Entertainment and Recrea		Count	7		5,138	2,312	2,826				
		·	لبسنتت					,020				

	Commercial-Personal and Repair Serv		Count	7	100.0	10,606	1,248 10,606	0				
-	Commercial-Professional - Technical S		Count	3	100.0	52,157	52,157	0				1
	Commercial-Retail Trade	Point	Count	2	100.0	36,408	36,408	0				1
	Commercial-Wholesale Trade	Point	Count	51	49.0	114,776	56,240	58,536			:	
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	43,306	25.0	14,291	3,573	10,718				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	257,089	25.0	51,418	12,854	38,563				
	Government - General Services Hazmat HAZUS SDURS	Point Point	Count	21	100.0 0.0	1,616	1,616	U				
	hc ambulatory	Point	Count	12	30.0	0	-	-				
	he hospitals	Point	Count	2	100.0	0	-					
	he nursing res	Point	Count	2	42.0	- 6						1
	Hwy Bridge HAZUS SDURS	Point	Count	7	25.0	14,000	3,500	10,500				
	Hwy HAZUS SDURS	Linear	Length (ft)	18,424	25.0	6,080	1,520	4,560				
	Industrial - Construction	Point	Count	5	100.0	8,843	8,843	0				1
	Industrial - Food - Drugs - Chemical	Point	Count	7	42.0	40,044	16,819	23,226	- 1			i i
	Industrial - Heavy	Point	Count	6	100.0	18,747	18,747	0				i
	Industrial - Light	Point	Count	5	100.0	10,512	10,512	Ö				
•	Intermodal_terminal_facilities	Point	Count	5	0.0	0	•	-				
	NG_Pipelines	Linear	Length (ft)	10,883	0.0	2,830	0	2,830	i			
	Petroleum Pipelines	Linear	Length (ft)	29,059	0.0	6,102	0	6,102				į I
	pipeline_trans	Point	Count	2	0.0	0		-				1
	Port_HAZUS_SDURS	Point	Count	5	0.0	12,862	0	12,862				1
	Rail_1000_nodes	Point	Count	17	0.0	0	-	-				1
	Rail_Bridge_HAZUS_SDURS	Point	Count	5	25.0	5,000	1,250	3,750				
	Rail_Facility_HAZUS_SDURS	Point	Count	6	100.0	15,434	15,434	0				l
	Rail_HAZUS_SDURS	Linear	Length (ft)	47,823	25.0	13,630	3,407	10,222				ŀ
	Religion - Churches and Other Non-pro		Count	5	38.0	5,992	2,277	3,715	1			i i
	Residential - Duplex	Point	Count	76	100.0	20,679	20,679	0	1			l
	Residential - Institutional Dormitory Residential - Manuf. Housing	Point Point	Count	555 555	42.0 100.0	6,990 18,975	2,936 18,975	4,054				
	Residential - Multi-Dwellings - 10 to 19		Count	2	100.0	20,942	20,942	0				
	Residential - Multi-Dwellings - 10 to 19		Count	2	100.0	25,186	25,186	- 0				
	Residential - Multi-Dwellings - 50+ unit		Count	2	100.0	34,532	34,532	- 6				
	Residential - Single Family Dwelling	Point	Count	1,967	100.0	270,011	270,011	0				
	Residential - Triplex - Quads	Point	Count	41	100.0	13,090	13,090					
	sewage treat	Point	Count	2	30.0	200,000	60,000		i			
	solid_waste_facilities	Point	Count	5	25.0	0	30,000	-	1			
	TankFarms	Point	Count	3	0.0	9,000	-	9,000	į			
	transin_ca	Linear	Length (ft)	33,025	0.0	8,131		8,131	l			1
	Waste_Water_HAZUS_SDURS	Point	Count	3	20.0	235,764	47,153	23,576	Į	ļ		
:	water_trans	Point	Count	5	0.0	Ö	-	-	780,065	158,670	2,384	81,127
West Sacramento South 1	bridges_not_in_HAZUS	Point	Count	2	25.0	2,000	500	1,500		·····		
		Point	Count	2	100.0	2,906	2,906	Ö	ļ	1		1
	Commercial-Retail Trade	Point	Count	2	100.0	834	834	O´	ŀ	1		1
	Commercial-Wholesale Trade	Point	Count	2	100.0	6,100	6,100	0		l		1
	Communication_HAZUS_SDURS	Point	Count	3	100.0	354	354	0	1			1
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	26,956	25.0	8,895	2,224	6,672		i		l l
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	52,937	25.0	10,587	2,647	7,941	1	i		1
	gas_oil_production_fields	Point	Area	80	0.0	0	-	-		ļ		l l
	Gas_oil_wells	Point	Count	10	0.0	0	-	•	i	į		i I
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,245	25.0	1,731	433	1,298		ŀ		
	Petroleum Pipelines	Linear	Length (ft)	12,899	0.0	2,709	0	2,709		ŀ		
	Rail_Bridge_HAZUS_SDURS	Point	Count	2	25.0	2,000	500	1,500		l		į l
	Rail HAZUS SDURS		Length (ft)	4,775	25.0	1,361	340	1,021		ŀ		
	Residential - Manuf. Housing	Point	Count	5	100.0	223	223	0	İ	1		1
			Count	<i>_</i>	100.0	74 767	74.707	0		1		ı I
	Residential - Single Family Dwelling Substation CA	Point Point	Count Count	376	100.0	71,767 1,000	71,767	750		1		i I
	transin ca	Linear	Length (ft)	7,713	25.0 0.0	1,000	250	1,899		i		l I
				1,113					1			i
	US_Cell_Towers	Point	Count	રા	0.0	750		750	89,079	4,500	69	21,539

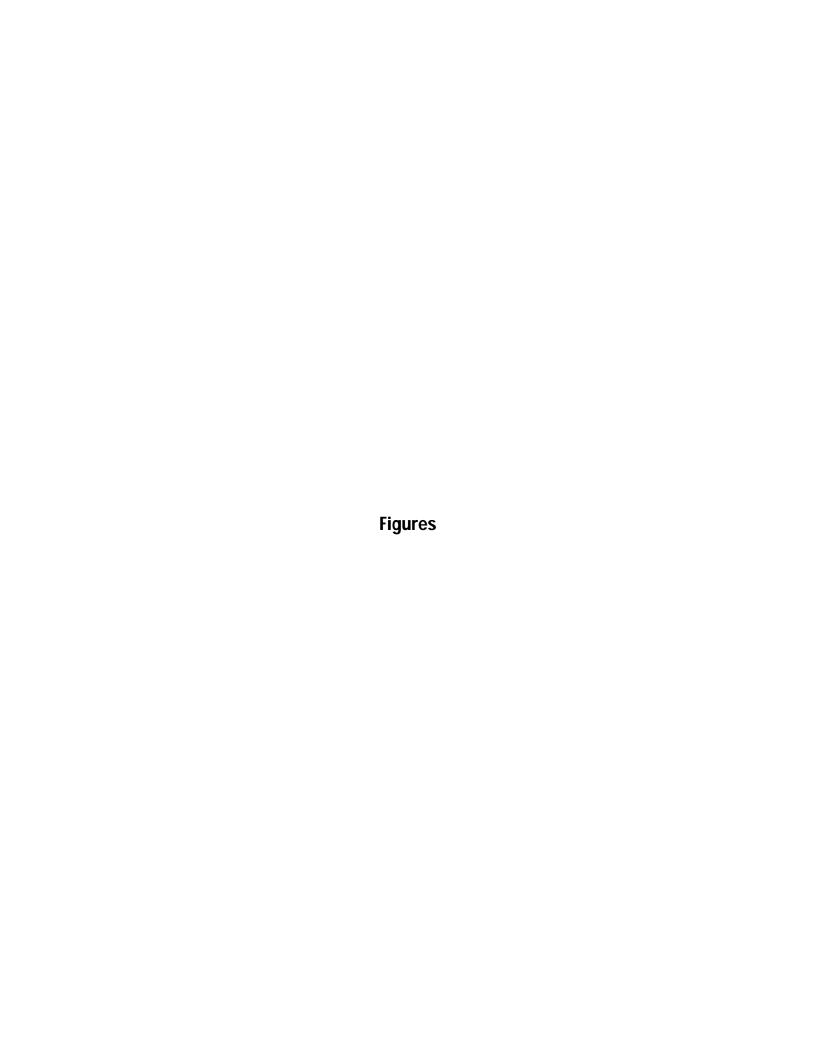
	Petroleum Pipelines	Linear	Length (ft)	2,538	0.0	533	0	533	254	o !	0	1,29
Woodward_Island	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	28,139	25.0	5,628	1,407	4,221				·····
	gas_pipeline_kinder_morgan_LS_9	Linear	Length (ft)	7,820	0.0	1,642	0	11,642				
	mokelumne_aqueduct_pipe	Linear	Length (ft)	23,350	0.0	116,750	8,873	0	10,280	0	0	5,863
Wright-Elmwood_Tract	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,702	25.0	1,940	485	1,455		1		
	Gas_oil_wells Residential - Multi-Dwellings - 10 to 19	Point	Count Count	2	0.0 100.0	0 54	54			1		
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	43	43	<u> </u>			1	
	Residential - Single Family Dwelling	Point	Count	4	100.0	836	836	0	1	į.	1	
	transin ca	Linear	Length (ft)	32,244	0.0	7,939		7.939	1,418	اه	0	9,394
Yolo_Bypass	Commercial-Personal and Repair Serv		Count	2	39.0	2,238	873	1,365	- ',		·····	
	Commercial-Professional - Technical S	Point	Count	1	100.0	4,617	4,617	0				
	Commercial-Retail Trade	Point	Count	1	42.0	1,885	792	1,093	i	- 1		
	Commercial-Wholesale Trade	Point	Count	4	37.0	10,151	3,756	6,395	ŀ	1		
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	489	25.0	161	40	121				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	55,722	25.0	11,144	2,786	8,358				
	gas_oil_production_fields	Point	Area	907	0.0	0	· · · · · · · · · · · · · · · · · · ·	-	. 1			
	Gas_oil_wells	Point	Count	37	0.0	0			1			
	Hwy Bridge HAZUS SDURS	Point '	Count (f)	1	25.0	2,000	500	1,500	l	1		
	Hwy_HAZUS_SDURS NG Pipelines	Linear Linear	Length (ft) Length (ft)	4,233 31,732	25.0 0.0	1,397	349	1,048	ŀ	1		
	Petroleum Pipelines	Linear Linear	Length (ft)	9,809	0.0	6,029 2,060	0	6,029 2,060	ļ	1		
	Rail HAZUS SDURS	Linear	Length (ft)	8,046	25.0	2,060	573	1,720	į	1		
	Residential - Multi-Dwellings - 10 to 19		Count	1	100.0	2,235	3/3	1,120	1			
	Residential - Multi-Dwellings - 50+ unit		Count		100.0	17	17	0				
	Residential - Single Family Dwelling	Point	Count	1	100.0	317	317	0	l			
	transin_ca	Linear	Length (ft)	32,873	0:0	8,094		8,094	14,626	10,354	56	27,430
Zone 120	Commercial-Retail Trade	Point	Count	2	30.0	354	106	248				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	12,876	25.0	4,249	1,062	3,187				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	30,677	25.0	6,135	1,534	4,602			İ	
	gas_oil_production_fields	Point	Area	751	0.0	0	-	-				
	Gas_oil_wells	Point	Count `	19	0.0	0	-1	-		1	1	
	NG_Pipelines	Linear	Length (ft)	6,994	0.0	2,273	. 0	2,273				
	NG_Wells	Point	Count	6	0.0	0					1	
	Residential - Manuf. Housing	Point	Count	12	100.0	472	472	0	l		l l	
	Residential - Single Family Dwelling transln ca	Point Linear	Count	50 7,869	43.6 0.0	8,899	3,882	5,017	7.050	F 004		44.000
Zone 122		Point	Length (ft)	7,009	100.0	1,937		1,937	7,056	5,264	92	11,999
Zone 14	Gas oil wells	Point	Count	- 4	0.0	250	250	<u> </u>	250	U	0	<u> </u>
2011e 14	NG Pipelines	Linear	Count Length (ft)	2,273	0.0	432	0	432	0	0	0	432
Zone 148	Commercial-Retail Trade	Point	Count	2,213	47.0	106	50	56		U .		432
		Linear	Length (ft)	354	25.0	117	29	88	1			
		Linear	Length (ft)	22,598	25.0	4,520	1,130	3,390		l		
		Point	Count	5	0.0	0	1,100	5,000				
		Linear	Length (ft)	9,687	25.0	3,197	799	2,398	į		1	
	Residential - Manuf. Housing	Point	Count	10	100.0	350	350	0			l	
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	100.0	248	248	Ó	į		1	
		Point	Count	40	100.0	5,274	5,274	0	ľ			
	Schools_HAZUS_SDURS	Point Point	Count	2	28.0	1,180	330	850				
	transln_ca	Linear	Léngth (ft)	5,058	0.0	1,245		1,245	8,211	906	21	7,120
Zone 155	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	543	25.0	109	27	81				
7ana 450 (Cmitth Time 4 0)	transin_ca	Linear	Length (ft)	769	0.0	189		189	27	0	0	271
Zone 158 (Smith Tract_2)	boatlaunch	Point	Count	2	100.0	200	200	0	1			
		Point	Count	3	13.0	4,106	534	3,572	1	- 1	l	
	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count	2	22.0 16.0	5,304	1,167	4,137	1	1	l	
	Commercial-Retail Trade Commercial-Wholesale Trade	Point Point	Count Count	2	11.0	8,644 7,660	1,383	7,261	1	ŀ	ļ	
	Delta_Roads_PBSJ_Major_Roads	Linear	Length (ft)	6,757	25.0	2,230	843 557	6,817 1,672	l			
		Linear	Length (ft)	97,442	25.0	19,488	4,872	1,672	1	Ţ.		
	Hazmat HAZUS SDURS	Point	Count	97,442	0.0	19,466	4,012	14,010	1	j	ŀ	
	hc_ambulatory	Point	Count	3	12.0	Ö	<u></u>}		İ			
		Point	Count	2	7.0	- 0				j		

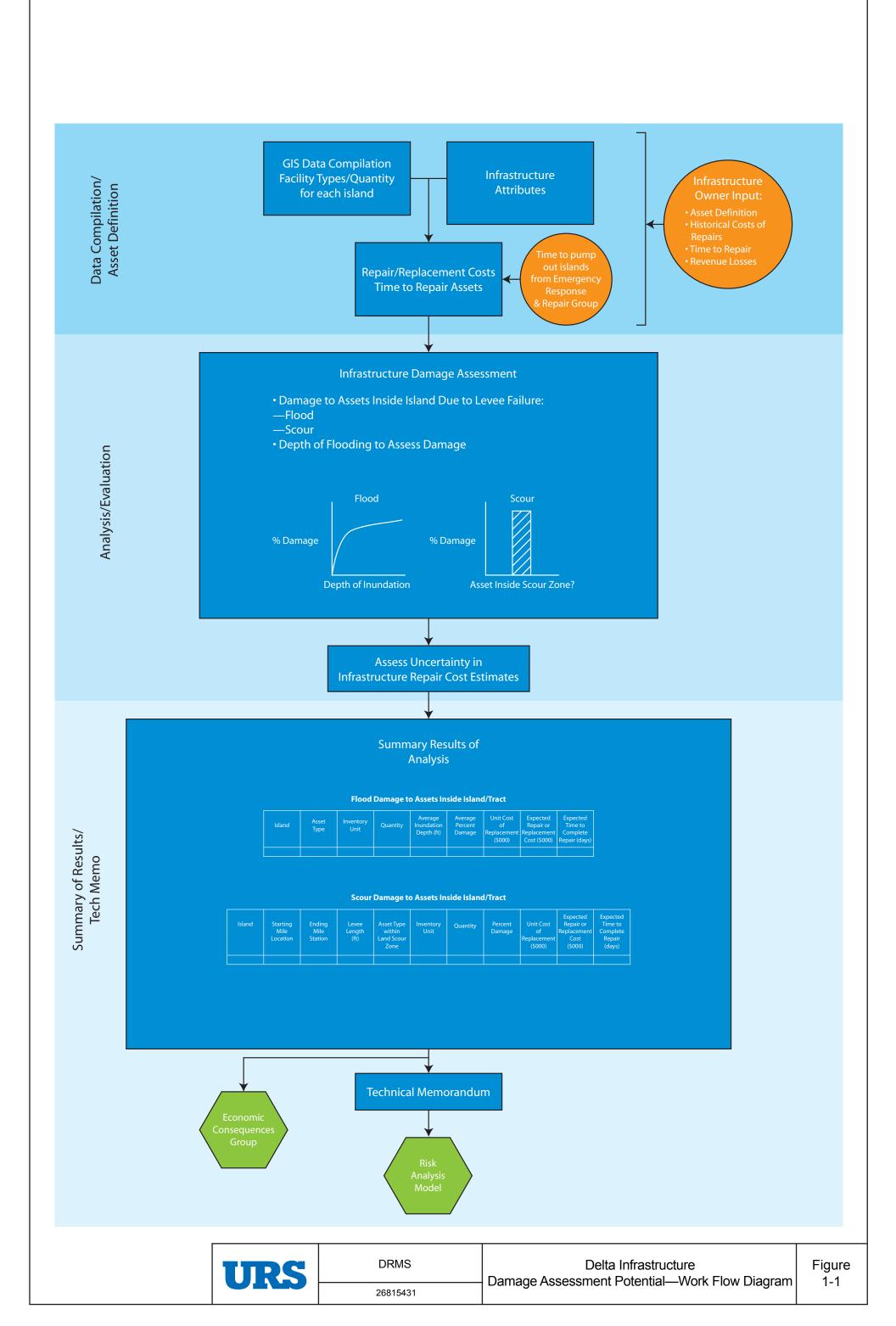
	Hwy_Bridge_HAZUS_SDURS	Point	Count	10	25.0	20,000	5,000	15,000	l l	· I		
	Hwy_HAZUS_SDURS		Length (ft)	7,666	25.0	2,530	632	1,897		1		
	Residential - Duplex		Count '	47	25.5	13,455	3,431	10,024	l			
	Residential - Manuf. Housing		Count	27	100.0	895	895	0		- 1	I	
	Residential - Multi-Dwellings - 10 to 19		Count	2	25.5	100	26	75			<u> </u>	
	Residential - Single Family Dwelling		Count	1,374	25.8	190,681	49,100	141,581				
	Residential - Triplex - Quads		Count	57	25.5	17,189	4,383	12,806		1		
	Schools_HAZUS_SDURS		Count	2	9.0	1,180	106	1,074	į	1		
	Utilities	Point	Count	2	0.0	0	-	-	73,130	202,346	21,023	18,18
Zone 160	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	9,676	25.0	1,935	484	1,451				J
	Residential - Single Family Dwelling	Point '	Count "	74	37:0	9,661	3,574	6,086	4,058	6,086	1,212	1,45
Zone 162	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	4,772	25.0	954	239	716				
	NG_Pipelines	Linear	Length (ft)	2,642	0.0	502	0	502		1		
	Residential - Manuf. Housing	Point	Count	2	100.0	84	84	0		1		
	Residential - Single Family Dwelling	Point	Count	12	100.0	2,566	2,566	0	2,888	0	0	1,21
Zone 171	Commercial-Retail Trade	Point	Count	2	20.0	70	14	56				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	6,866	25.0	2,266	566	1,699	1			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,153	25.0	831	208	623	- 1	- 1	1	
	gas oil production fields		Area	790	0.0	Ö		-	- 1	1		
	Gas oil wells		Count	14	0.0	Ö		-	1	1		
	Hwy Bridge HAZUS SDURS	Point	Count	4	25.0	8,000	2,000	6,000	- 1		1	
	Hwy HAZUS SDURS	Linear	Length (ft)	4,348	25.0	1,435	359	1,076	- 1			
	NG Pipelines	Linear	Length (ft)	15,491	0.0	5,035	0	5,035	1		ì	
	Rail HAZUS SDURS	Linear	Length (ft)	4,827	25.0	1,376	344	1,032		Į.	1	
			Count	4	32.6	685	224	462	3,714	6,518	119	9,46
Zone 185	Commercial-Personal and Repair Servi		Count	1	16,0	1,409	225	1,184				
20110 100			Count	1	28.0	4,243	1,188	3,055				
	Commercial-Retail Trade Point Count 1 18.0 715 129 586											
	· · · · · · · · · · · · · · · · · · ·		Length (ft)	100,663	25.0	20,133	5.033	15,099	1			
	Gas oil wells		Count	100,000	0.0	20,100	0,000	10,000				
	hc nursing res		Count	4	18.0	ŏ			1		1	
	Hwy Bridge HAZUS SDURS		Count	3	25.0	6.000	1,500	4,500				
	Hwy HAZUS SDURS		Length (ft)	3,863	25.0 25.0	1,275	319	956			1	
	Residential - Duplex		Count	43	28.5	10,969	3,126	7.843			1	
	Residential - Duplex Residential - Institutional Dormitory		Count	4 5	15.0	23,034	3,455	19,579	•			
	Residential - Manuf. Housing		Count	10	100.0	316	316	19,579				
	Residential - Multi-Dwellings - 10 to 19		Count	10	28.5	532	152	380			ŀ	
	Residential - Multi-Dwellings - 10 to 19 Residential - Multi-Dwellings - 50+ unit		Count		28.5	16,268	4,636	11,632				
				2,234	29.3	427,503	125,045	302,458				
	Residential - Triplex - Quads		Count Count	2,234	28.5	2,573	733	1.840		i i		
				2		5,740						
	Residential -Nursing Home		Count		15.0 13.0		861	4,879	446.705	250 440	27 276	46.05
Zone 186			Count	10.005	0.0	590	77	513	146,795	358,449	27,376	16,05 3,28
	transin_ca		Length (ft)	13,335		3,283		3,283				3,28
Zone 197			Count	2	100.0	4],	4	, 0	j	ļ	ļ	
	Commercial-Retail Trade		Count	2	100.0	56	56	0			Į.	
	Delta_Roads_PBSJ_Major_Roads		Length (ft)	4,871	25.0	1,607	402	1,206	Į.	ŀ	Ì	
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	42,307	25.0	8,461	2,115	6,346	j	ł		
	Gas_oil_wells		Count	4	0.0	0			ļ			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	35,965	25.0	11,868	2,967	8,901		1		
	NG_Pipelines		Length (ft)	5,539	0.0	1,800	0	1,800	ļ	1		
	Rail_1000_nodes		Count	2	0.0	. 0			ļ	1	1	
	Residential - Manuf. Housing		Count	22	100.0	760	760	0		- 1	i i	
	Residential - Multi-Dwellings - 10 to 19		Count	2	100.0	520	520	0		_]	.1	
			Count	81	100.0	11,412	11,412	0	18,236	0	0	18,25
Zone 206	bridges_not_in_HAZUS		Count	2	25.0	2,000	500	1,500			i	
	Commercial-Entertainment and Recrea		Count '	2	18.0	1,716	309	1,407	l	l	I	
	Commercial-Personal and Repair Serv		Count	2	22.0	1,753	386	1,367	l	ŀ		
	Commercial-Professional - Technical S		Count	1	38.0	1,672	635	1,037			l	
	Commercial-Retail Trade		Còunt	1	23.0	875	201	674	l		<u>I</u>	
	Commercial-Wholesale Trade	Point (Count	2	19.0	3,378	642	2,736			l	
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	5,592	25.0	1,845	461	1,384	· I		ļ	
	Delta_Roads_PBSJ_Minor_ Roads	Linear	Length (ft)	7.483	25.0	1,497	374	1,122			E .	

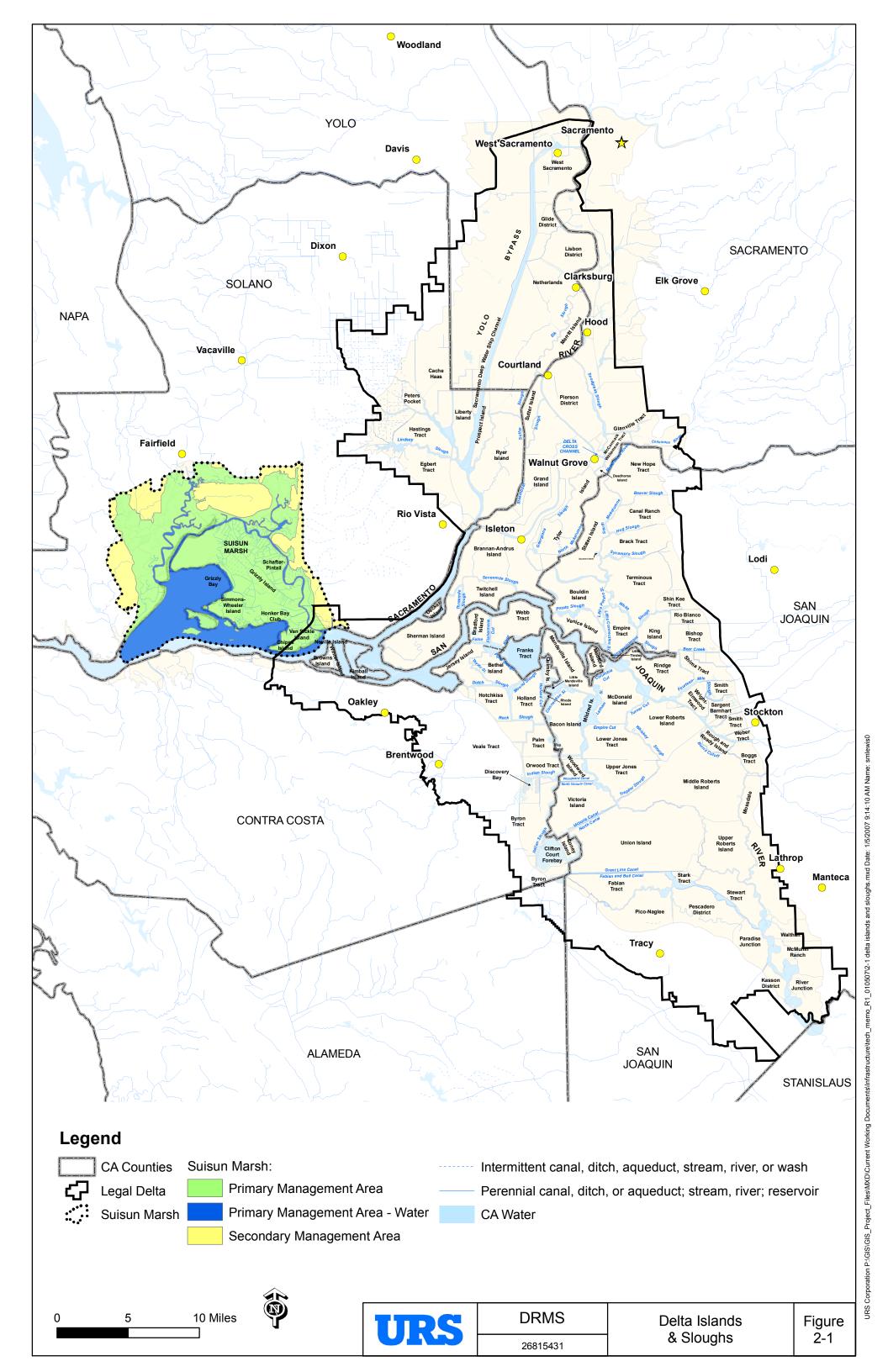
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											•	
	Elec Power HAZUS SDURS	Point	Count	1	100.0	129,800	129,800	0				1 1
	gas oil production fields	Point	Area	113		0	-	-				
	Gas_oil_wells	Point	Count	7	0.0	0		•				
	Government - General Services	Point	Count	1		587		499				1
	Hazmat_HAZUS_SDURS	Point	Count	28 4,990	0.0	24,950		23,054				
	mokelumne_aqueduct_pipe Oil HAZUS SDURS	Linear Point	Length (ft) Count	4,990	20.0	118		23,034				
	Petroleum Pipelines	Linear	Length (ft)	56,142		11,790	0	11,790				
	Rail_1000_nodes	Point	Count	3	0.0	0		-			,	
		Linear	Length (ft)	14,693	25.0	4,188	1,047	3,141			,	
	Residential - Institutional Dormitory	Point	Count	9,175	16.0 0.0	3,144 2,259		2,641 2,259	136,866	11,955	259	42,750
Zone 207	transln_ca Delta Roads PBSJ Minor Roads	Linear Linear	Length (ft) Length (ft)	5,102		1,020		765	130,000	11,555	200	42,730
	Petroleum Pipelines	Linear	Length (ft)	2,447	0.0	514	Ò	514				
	Rail_HAZUS_SDURS	Linear	Length (ft)	20,443	25.0	5,826		4,370	1,712	0	0	5,649
Zone 214	gas_oil_production_fields	Point	Area	172		0						
	Gas_oil_wells	Point	Count	9		0		270				
	NG_Pipelines NG Wells	Linear Point	Length (ft) Count	1,419 2	0.0 0.0	270 0		270	o	o	o	270
Zone 216	Gas oil wells	Point	Count	1		0		-				
		Point	Count	3	48.6	701	341	360	341	360	99	0
Zone 31		Point	Count	3	37.0	645		406	239	406	166	
Zone 33		Point	Count	2		326		205	121	205	115	0
Zone 36	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count	2		38		30				
		Point Linear	Count Length (ft)	459	16.0 25.0	84 151	13 38	71 114				
		Linear	Length (ft)	4,606		921	230	691			,	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	783		258		194			į	
	Residential - Multi-Dwellings - 10 to 19		Count	2		34		25			,	
		Point	Count	28		6,337	1,632	4,705				
	solid_waste_facilities transin_ca	Point Linéar	Count Length (ft)	2 3,946		972	<u> </u>	972	1,995	4,831	834	1,970
Zone 37	Commercial-Entertainment and Recrea		Count	3	12.0	5,313		4,675		1,001		1,0,0
	Commercial-Personal and Repair Serv		Count	5	13.0	5,178	673	4,504				
	Commèrcial-Professional - Technical S		Count	3	22.0	15,444		12,046				
	Commercial-Retail Trade	Point	Count	3	16.0	5,706	913	4,793			,	
	Commercial-Wholesale Trade Delta_Roads_PBSJ_Major_Roads	Point Lineár	Count Length (ft)	4,472	11.0 25.0	6,657 1,476	732 369	5,925 1,107				
		Linear	Length (ft)	34,426		6,885		5,164			1	
	hc_ambulatory	Point	Count	3	16.0	0,000		-			į	
	Hwy_HAZUS_SDURS	Linear	Length (ft)	388	25.0	128		96				
	Industrial - Heavy	Point	Count .	7		17,498		14,873				
	Industrial - Light Intermodal terminal facilities	Point Point	Count	3		7,008 0		5,817				
	Petroleum Pipelines	Linear	Length (ft)	7,203	0.0	1,513		1,513				
	Rail_1000_nodes	Point	Count	3	0.0	0		-				
	Rail Facility HAZUS SDURS	Point	Count	3	25.0	7,717		5,788	l l			
	Rail HAZUS SDURS	Linear	Length (ft)	6,429		1,832	458	1,374				
		Point	Count	23	25.5	6,583	1,679	4,904			,	
	Residential - Manuf. Housing Residential - Multi-Dwellings - 10 to 19	Point Point	Count Count	349 3	100.0 25.5	11,907 4,095	11,907 1,044	3,051				(
	Residential - Multi-Dwellings - 10 to 19		Count	3	25.5	17,202		12,815			,	
	Residential - Multi-Dwellings - 5 to 9 ur		Count	10		16,850	4,297	12,553			,	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	3	25.5	5,367	1,369	3,998				
		Point	Count	467	25.8	72,891	18,769	54,121				
	Residential - Triplex - Quads Waste Water HAZUS SDURS	Point	Count	23		6,392		4,762				
		Point Point	Count Count	3 5		235,764 0		23,576	106,913	178,203	14,874	9,254
Zone 38	Commercial-Entertainment and Recrea		Count	2		2,734		2,351	100,813	110,203	14,074	5,254
	Commercial-Personal and Repair Serv		Count	4	16.0	4,272		3,588			Ì	
				2		4,208						. 1
	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count	. 2	18.0	4,208		3,030 3,351			'	(1

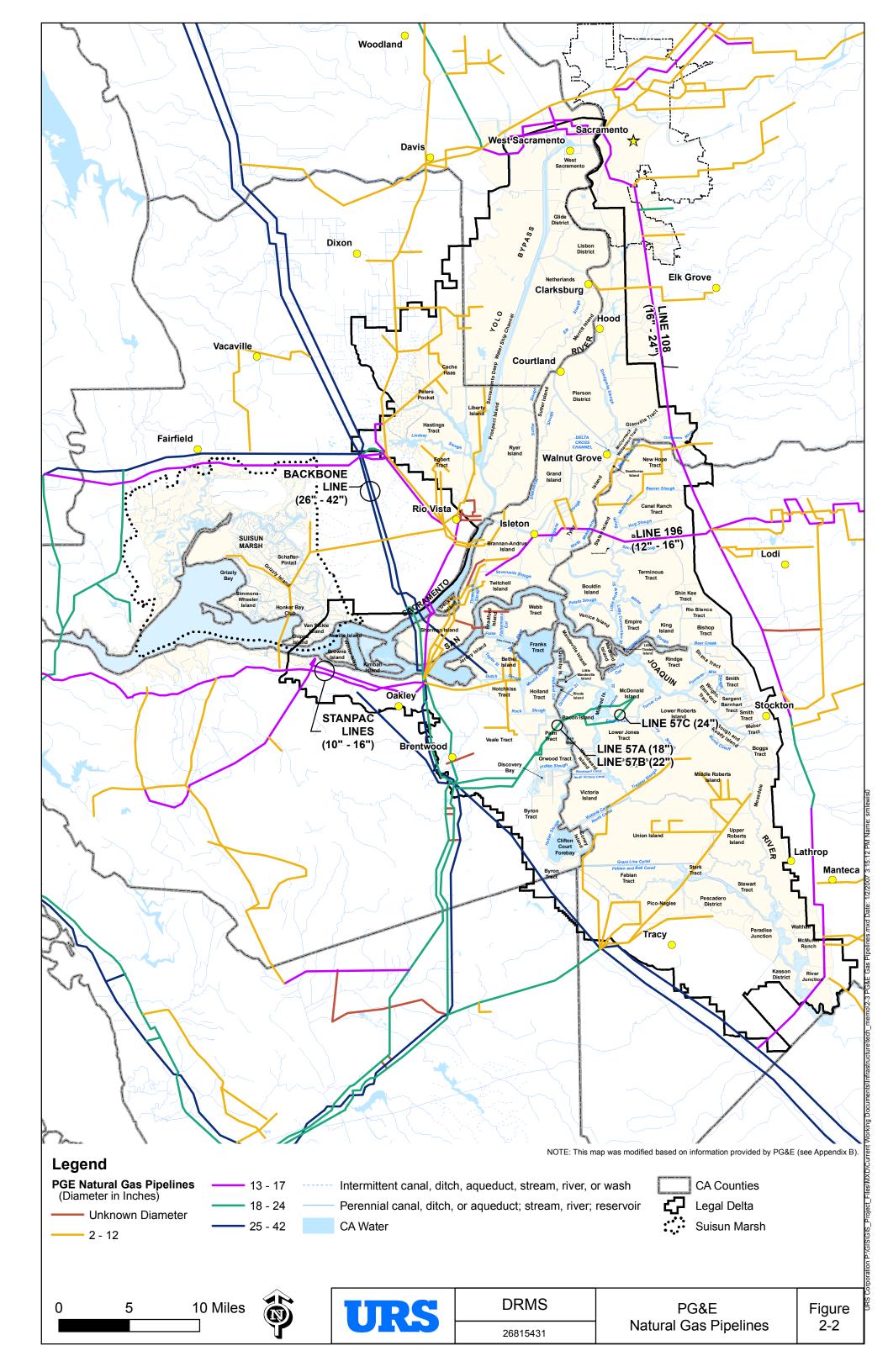
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	Commercial-Wholesale Trade	Point	Count	4	13.0	8,823	1,147	7,676				
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	2,630	25.0	868	217	651				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	18,247	25.0	3,649	912	2,737				
	Education - Colleges - Universities	Point	Count	2	9.0	10,556	950	9,606				
	Hazmat_HAZUS_SDURS	Point	Count	3	0.0	0						
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	Hwy_HAZUS_SDURS	Linear	Length (ft)	1,608	25.0	531	133	398		1		
	Industrial - Food - Drugs - Chemical	Point	Count	2	22.0	7,536	1,658	5,878				
	Industrial - Heavy	Point	Count	2	19.0	3,124	594	2,530				
	NG_Pipelines	Linear	Length (ft)	875	0.0	166	0	166	1			
	Petroleum Pipelines	Linear	Length (ft)	80,209	0.0	16,844	0	16,844				
	Port_HAZUS_SDURS	Point	Count	2	0.0	5,145	.0	5,145				
	Rail_1000_nodes	Point	Count	4	0.0	0		0.050				
	Rail_Facility_HAZUS_SDURS	Point	Count	2	25,0	5,145	1,286	3,859				
	Rail HAZUS SDURS	Linear	Length (ft)	26,921	25.0	7,672	1,918	5,754	i i			
	Residential - Duplex	Point	Count		28.5	1,288	367	921				
	Residential - Multi-Dwellings - 10 to 19		Count	2	28.5	248	71	177			•	
	Residential - Multi-Dwellings - 50+ unit	Point	Count	2	28.5	1,096	312	784			J	
	Residential - Single Family Dwelling	Point	Count	39	29.3 0.0	6,776	1,982	4,794 389	15,527	56,689	8,704	26,939
7	transin_ca	Linear	Length (ft)	1,579		389			15,527	30,009	0,704	೭೮,೨३೪
Zone 64	Commercial-Professional - Technical S		Count	2	22.0	504	111	393			J	
	Commercial-Retail Trade	Point	Count	2 242	16.0	444	71	373		- 1	J	
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	342 171	25.0 0.0	68 0	17	51]	^	ŀ	
	gas_oil_production_fields	Point	Area	1/1		0				1		
	Gas_oil_wells	Point	Count	2 246	0.0			803		1		
	Hwy_HAZUS_SDURS	Linear	Length (ft)	3,245	25.0 37.0	1,071	268 852	1,452				
	Industrial - Construction	Point	Count	0.475	0.0	2,304 413	002	413				
	NG_Pipelines	Linear	Length (ft)	2,175	100.0	143	143	413				
	Residential - Manuf, Housing	Point Point	Count	29	25.8	5,192	1,337	3,855	2,799	6,073	5.292	1,268
Zone 65	Residential - Single Family Dwelling	Linear	Count	1,749	25.0	350	87	262	2,799	0,075	5,232	262
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)	4,234	25.0	847	212	635	07			202
Zone 69	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	4,234 18	25.0	0	212	030				
	gas_oil_production_fields Gas_oil_wells	Point Point	Area Count	2	0.0	0			212	o	n	635
7 74				4,314	25.0	1,424	356	1,068	212.		· · · · ·	000
Zone 74	Delta Roads PBSJ Major_Roads	Linear Linear	Length (ft)	22,940	25.0	4,588	1,147	3,441				
	Delta_Roads_PBSJ_Minor_Roads		Length (ft)		0.0	4,566	1,147	3,441				
	gas_oil_production_fields	Point	Area	506 19	0.0	0						
	Gas_oil_wells Hwy HAZUS SDURS	Point Linear	Count	2,004	25.0	661	165	496				
	NG Pipelines	Linear	Length (ft) Length (ft)	6,878	0.0	1,307	100	1,307				
				2,062	0.0	433	0	433				
	Petroleum Pipelines Rail HAZUS SDURS	Linear Linear	Length (ft) Length (ft)	2,062	25.0	586	146	433		1		
	Residential - Multi-Dwellings - 10 to 19		Count	2,006	38.5	74	28	439	ŀ		ļ	
			Count	2	38.5	210	28 81	129	j	1	ļ	
	Residential - Multi-Dwellings - 50+ unit Residential - Single Family Dwelling	Point	Count	- 2	37.0	1,587	587	1,000	j			
	transin ca	Linear	Length (ft)	7,333	0.0	1,805	307	1,805	2,511	1,175	33	8,989
7ono 75		Point		7,000	25.0	3,000	750	2,250	2,511	1,175		0,303
Zone 75	bridges not in HAZUS		Count	425	25.0 25.0	3,000	750 35	2,250	l			
	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear Linear	Length (ft)	21,073	25.0	4,215	1,054	3,161	l			
	Gas oil wells	Point	Length (ft) Count	21,073	0.0	4,215	1,004	3,101	ļ			
	Hwy HAZUS SDURS	Linear	Length (ft)	6,027	25.0	1,989	497	1,492	l			
	Residential - Manuf. Housing	Point	Count (it)	0,027	100.0	1,969	104	1,482	l			
	Residential - Multi-Dwellings - 10 to 19		Count	2	48.0	56	27	29	į			
	Residential - Multi-Dwellings - 10 to 19		Count		48.0	308	148	160	l		ļ	
	Residential - Mutt-Dwellings - 50+ unit	Point	Count	36	46.6	7,523	3,507	4.015	J	1		
	solid waste facilities	Point	Count	, 30	25.0	7,525	3,307	7,010	6,122	6,455	171	4,758
Zone 77		Total Cook	264	58	206	0,122	0,700	171	7,130			
ZUIIG / /	Commercial-Professional - Technical S Commercial-Retail Trade	Point	Count Count	 	16.0	206	33	173	į			
	Delta Roads PBSJ Major Roads	Linear	Length (ft)	8,434	25.0	2,783	696	2,087	j			
	Delta Roads PBSJ Major Roads Delta Roads PBSJ Minor Roads	Linear		2.294	25.0	459	115	344	l			
	Rail HAZUS SDURS	Linear	Length (ft) Length (ft)	4,346	25.0 25.0	1,239	310	929	j			
				4,540			310	323			l	
	Residential - Multi-Dwellings - 10 to 19	Doint	Count	1 1	25.5	12	101	O.				

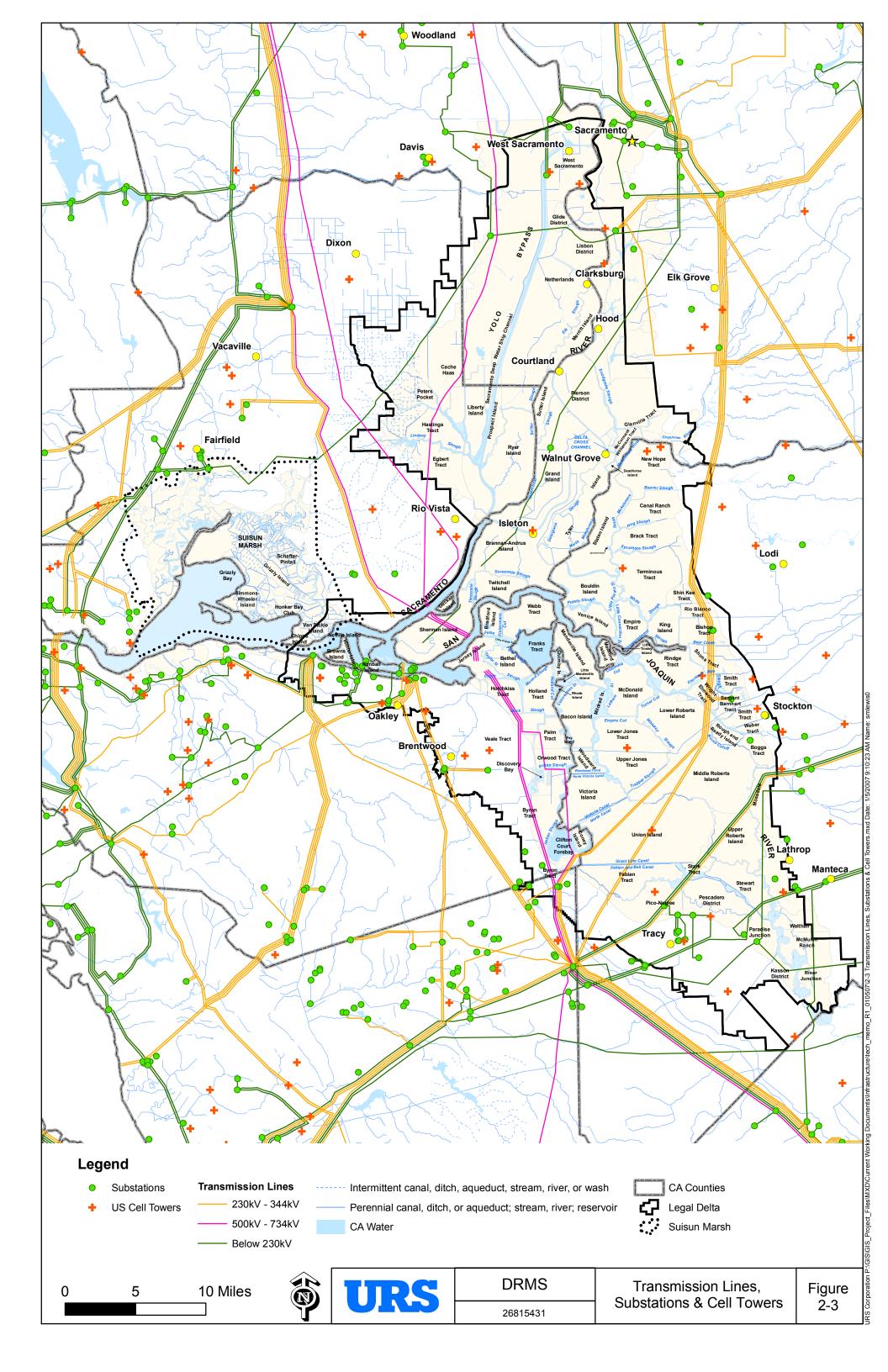
	F5	do	lot I	T	25.5	200	· FC	404			ı	
·	Residential - Multi-Dwellings - 50+ uni		Count	2		220	56	164	İ			
4	Residential - Single Family Dwelling	Point	Count	22	25.8	4,533	1,167	3,366	2 400	2.040		
	transin_ca	Linear	Length (ft)	4,318	0.0	1,063		1,063	2,438	3,918	510	4,424
Zone 78	bridges_not_in_HAZUS	Point	Count	4	25.0	4,000	1,000	3,000				
		Point	Count	2	41.0	154	63	91				
	Commercial-Retail Trade	Point	Count	2	26.0	62	16					
	Delta_Roads_PBSJ_Major_Roads_	Linear	Length (ft)	4,347	25.0	1,435	359	1,076				
	Delta_Roads_PBSJ_Minor_Roads	Linear	Length (ft)	6,088	25.0	1,218	304	913	:			
	Gas_oil_wells	Point	Count	2	0.0	0	-	-	•			
	Hwy_HAZUS_SDURS	Linear	Length (ft)	5,142	25.0	1,697	424	1,273				
	NG_Pipelines	Linear	Length (ft)	51	0.0	17	0	17				
	Rail_HAZUS_SDURS	Linear	Length (ft)	2,168	25.0	618	154	463				!
	Residential - Multi-Dwellings - 10 to 19	Point	Count	2	43.0	30	13	17				
	Residential - Multi-Dwellings - 50+ uni	t Point	Count	2	43.0	246	106	140				
	Residential - Single Family Dwelling	Point	Count	29	39.1	5,602	2,192	3,410				
	transin_ca	Linèar	Length (ft)	2,258	0.0	556	•	556	4,631	6,704	185	4,298
Zone 79	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	19,879	25.0	3,976	994	2,982				
	Gas oil wells	Point	Count	3	0.0	Ö	-		1			
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000	- 1			Į l
	NG Pipelines	Linear	Length (ft)	4,899	0.0	931	0	931	1			
	Residential - Single Family Dwelling	Point	Count	3	37.0	431	159	271	2,153	3,271	13 ⁻	3,913
Zone 80	Delta Roads PBSJ Major Roads	Linear	Length (ft)	2,594	25.0	856	214	642				
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	18,727	25.0	3,745	936	2,809	1]
	gas oil production fields	Point	Area	514	0.0	0	-	-				
	Gas oil wells	Point	Count	`6	0.0	Ò	_	-				
	Hwy Bridge HAZUS SDURS	Point	Count	2	25.0	4,000	1,000	3,000				1
	NG Pipelines	Linear	Length (ft)	6,091	0.0	1,157	0	1,157				1
	NG Wells	Point	Count	1	0.0	0	-	1,141				}
	Petroleum Pipelines	Linear	Length (ft)	1,030	0.0	216	0	216				
	Residential - Single Family Dwelling	Point	Count	2	32.6	450	147	303				
	transin ca	Linear	Length (ft)	2,416	0.0	595	-	595	2,297	3,303	113	5,420
Zone 81	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	13,631	25.0	2,726	682	2,045				
	Gas oil wells	Point	Count	6	0.0	0		-				
	Hwy_Bridge_HAZUS_SDURS	Point	Count	2	25.0	4,000	1,000	3,000				
	NG Pipelines	Linear	Length (ft)	5,161	0.0	981	0	981	1			
	NG Wells	Point	Count	2	0.0	Ö						
	Residential - Manuf. Housing	Point	Count		100.0	40	40	0	1			
	Residential - Single Family Dwelling	Point	Count	8	39.1	1,472	576	896	2,297	3.896	92	3,025
Zone 82	Delta Roads PBSJ Major Roads	Linear	Length (ft)	3,109	25.0	1,026	256	769				
20116 02	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	703	25.0	141	35	105				ŀ
	Hwy HAZUS SDURS	Linear	Length (ft)	3,110	25.0	1.026	257	770				,
	NG Pipelines	Linear	Length (ft)	10,955	0.0	2,081	0					
	transin ca	Linear	Length (ft)	2,387	0.0	769		769	548	. о	(4,495
Zone 90		Point	Count	2,007	28.0	344	96	248	0,10		``	1,100
20116 30	Commercial-Retail Trade	Point	Count	2	18.0	1,810	326	1,484				1
	Delta_Roads_PBSJ_Major_ Roads	Linear	Length (ft)	9,390	25.0	3,099	775	2,324	ļ			
	Delta Roads PBSJ Minor Roads	Linear	Length (ft)	16,336	25.0	3,099	817	2,324	1		*	
	Hazmat HAZUS SDURS	Point	Count	38	0.0	3,207	617	2,430	j			
	Hwy Bridge HAZUS SDURS	Point	Count	4	25.0	8,000	2,000	6,000	1			
	Hwy HAZUS SDURS	Linear	Length (ft)	4,141	25.0	1,367	342	1,025	1			
	Industrial - Food - Drugs - Chemical	Point	Count	7,171	22.0	8,388	1,845	6,543	ļ			
	Oil_HAZUS_SDURS	Point	Count	4	20.0	118	24	94	1			
	Petroleum Pipelines	Linear	Length (ft)	119,148	0.0	25,021		25,021	1			
	Rail HAZUS SDURS	Linear	Length (ft)	9,484	25.0	25,021	676	2,021				
									į			
	Residential - Single Family Dwelling											
	solid_waste_facilities	Point	Count	4	25.0	6 600	-		1		· ·	
	TankFarms	Point	Count	7 405	0.0	6,000	-	6,000	0.275	00.440	70.	
<u></u>	transln_ca	Linear	Length (ft)	7,135	0.0	1,757		1,757	9,275	26,113	764	34,604

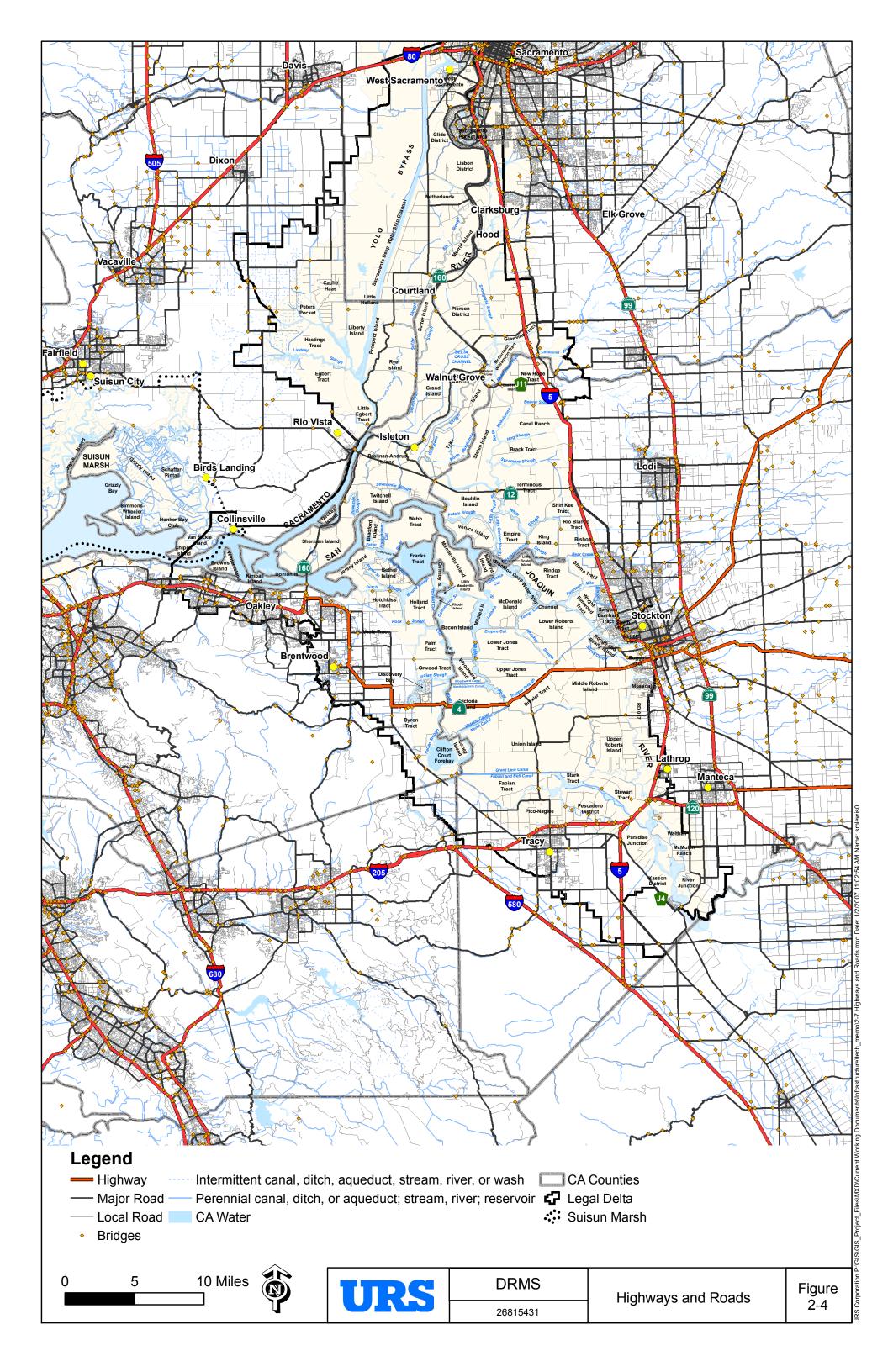


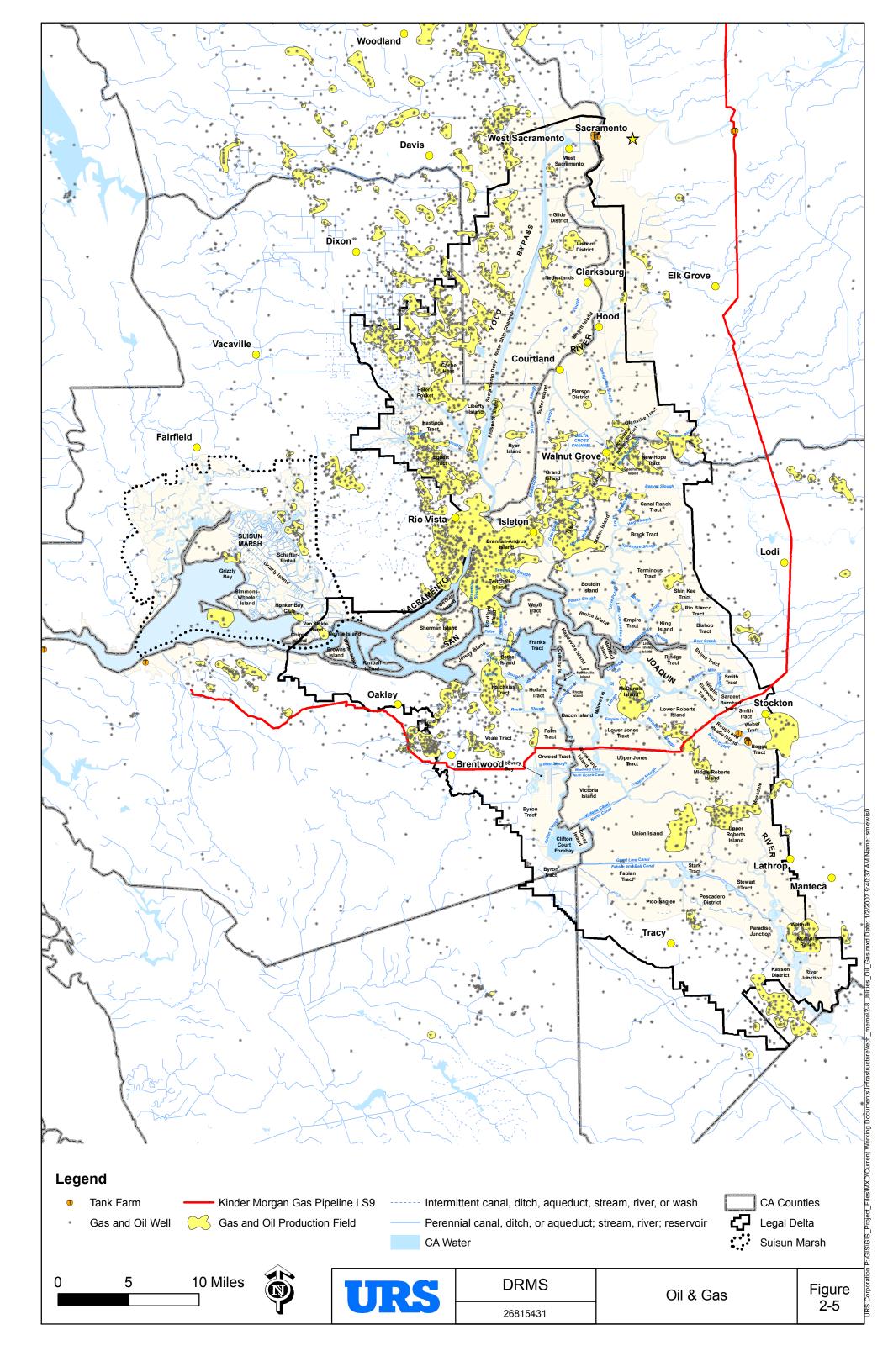


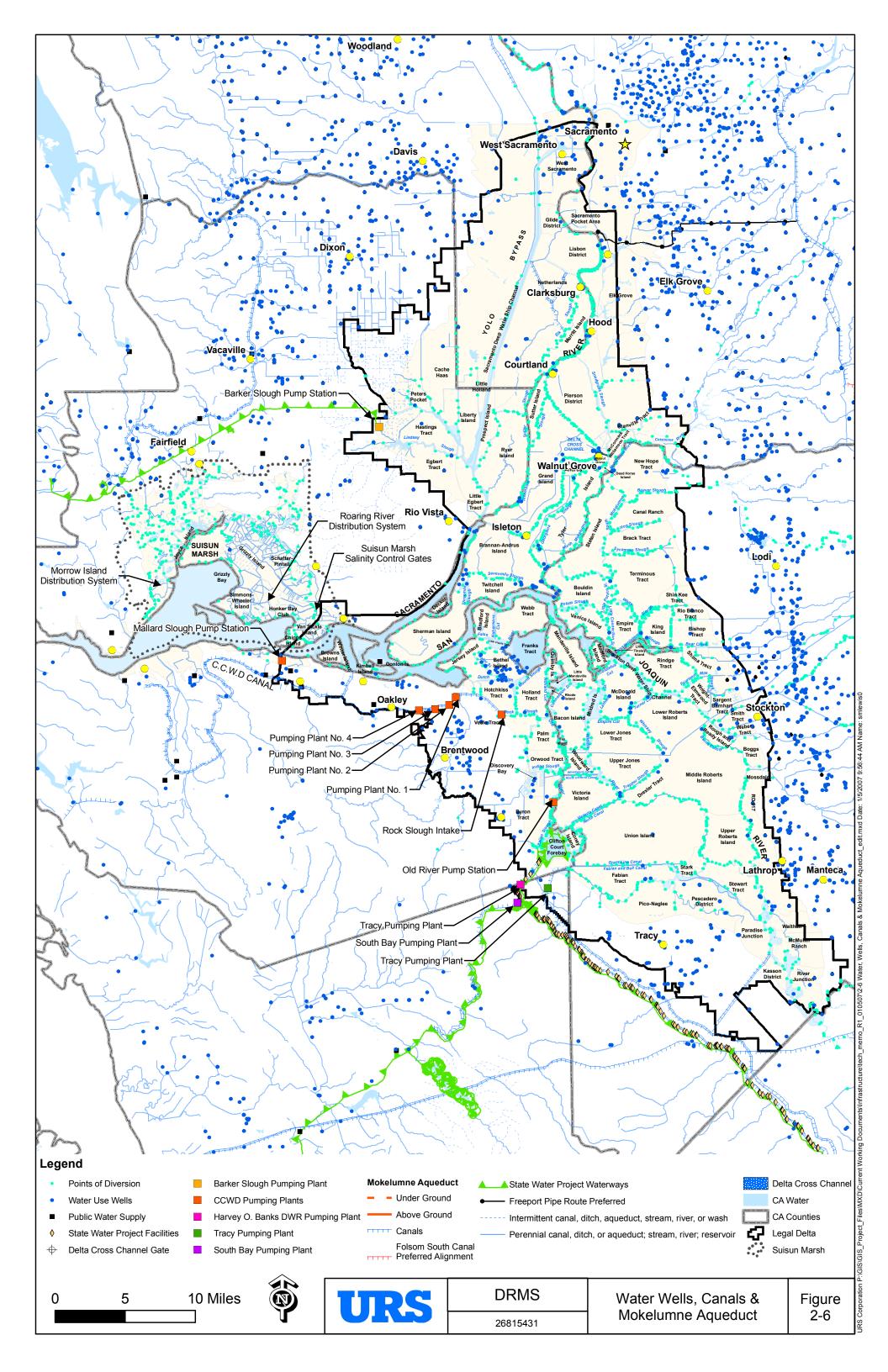


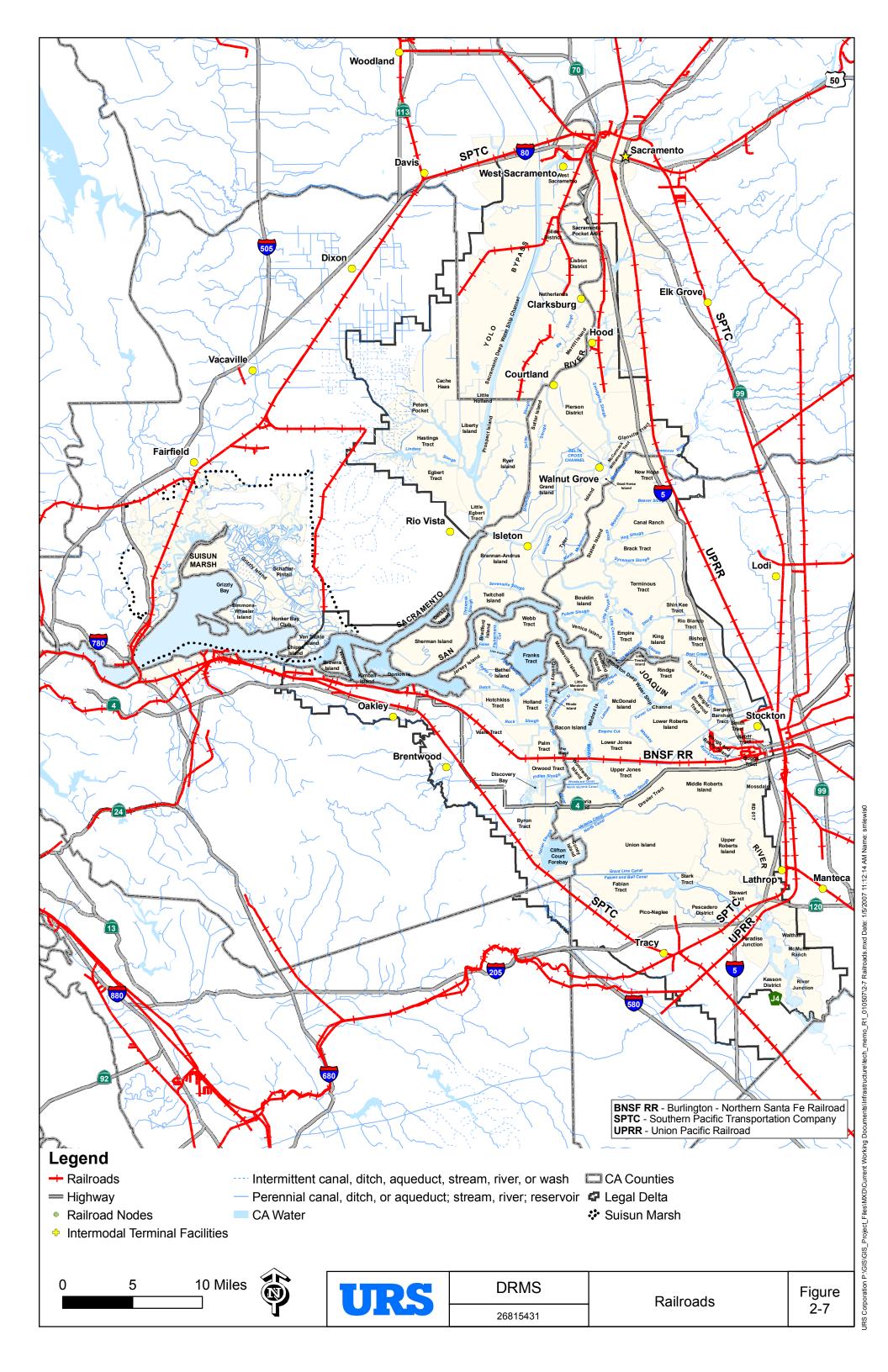


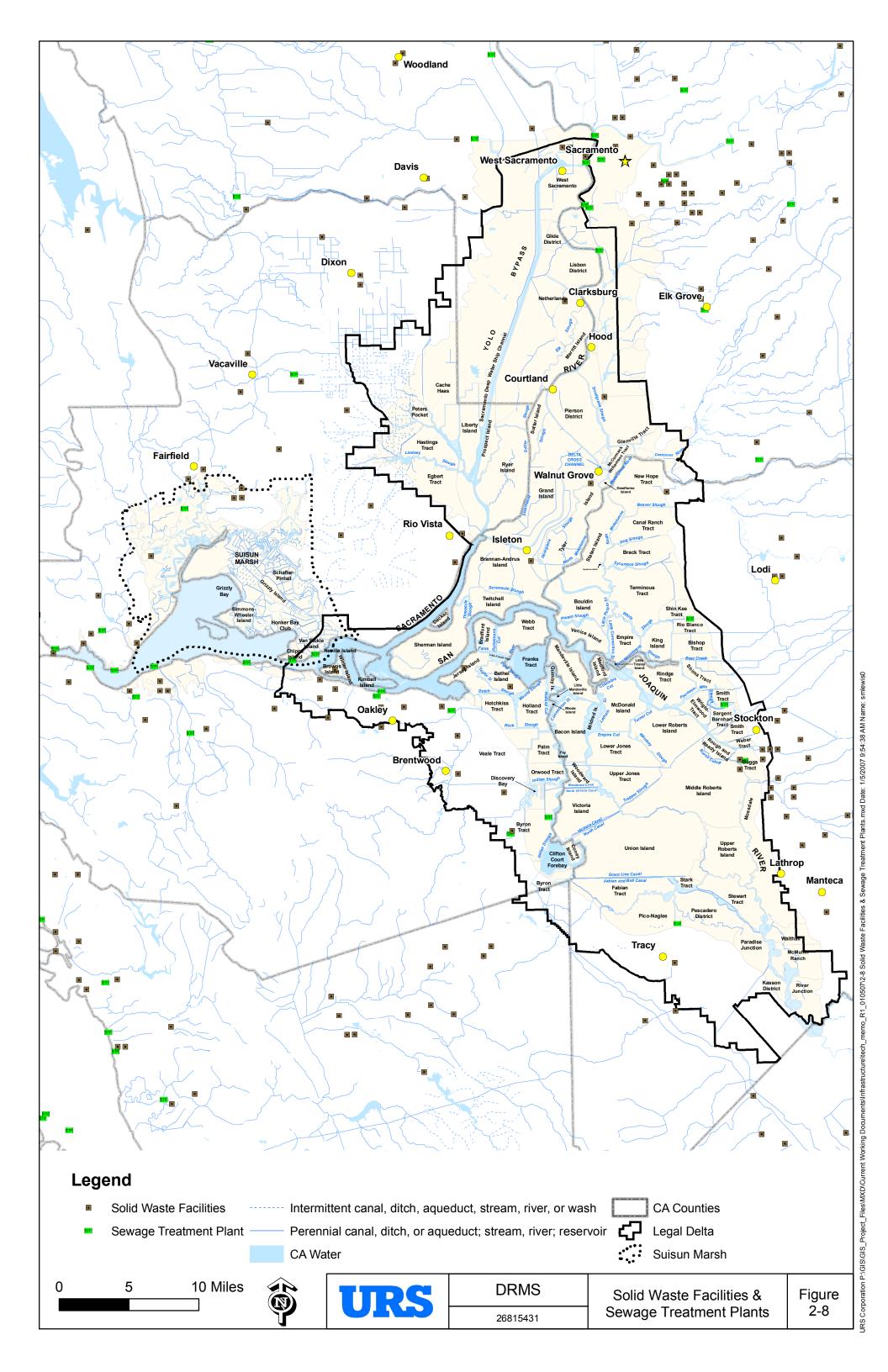


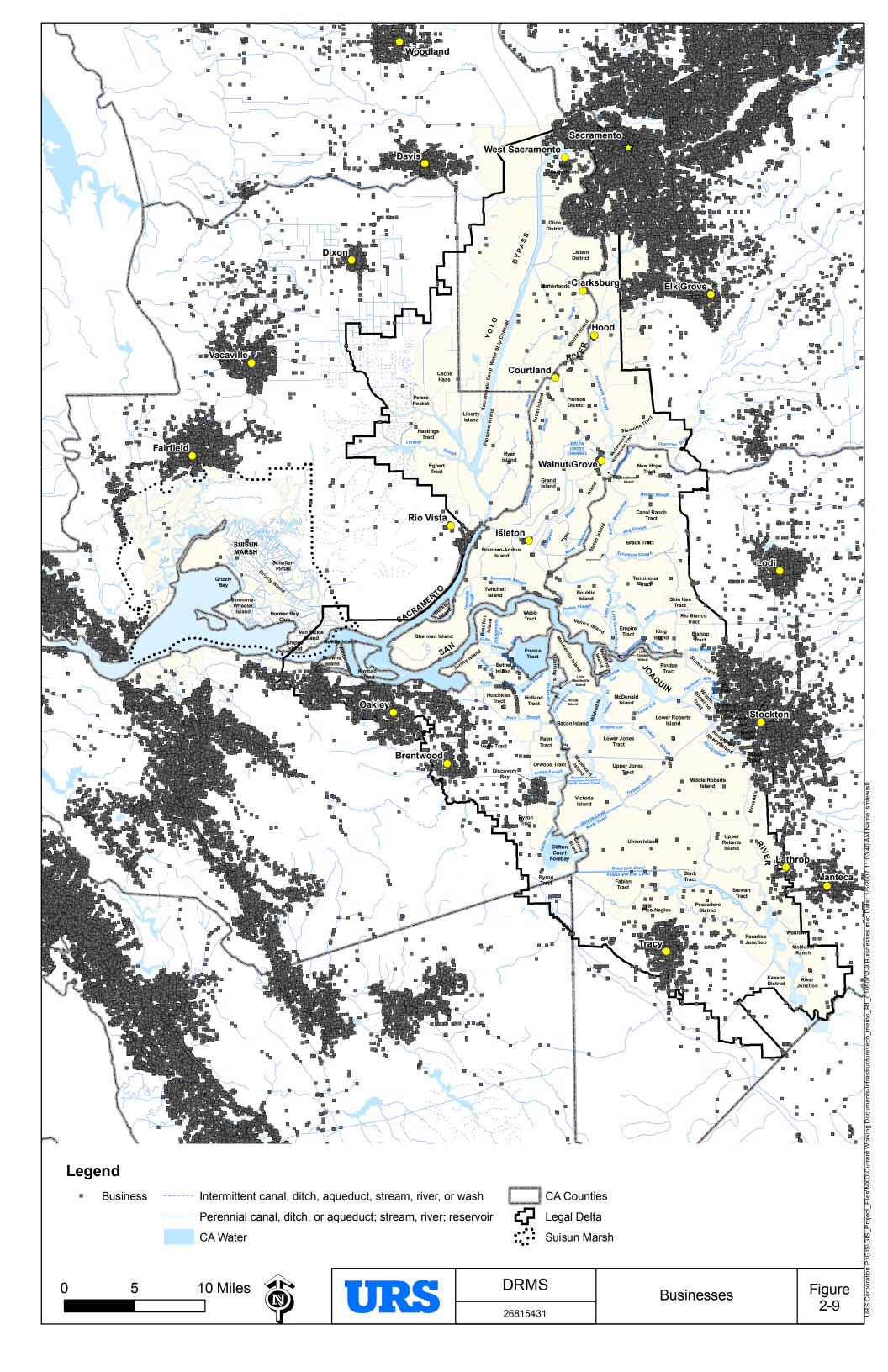


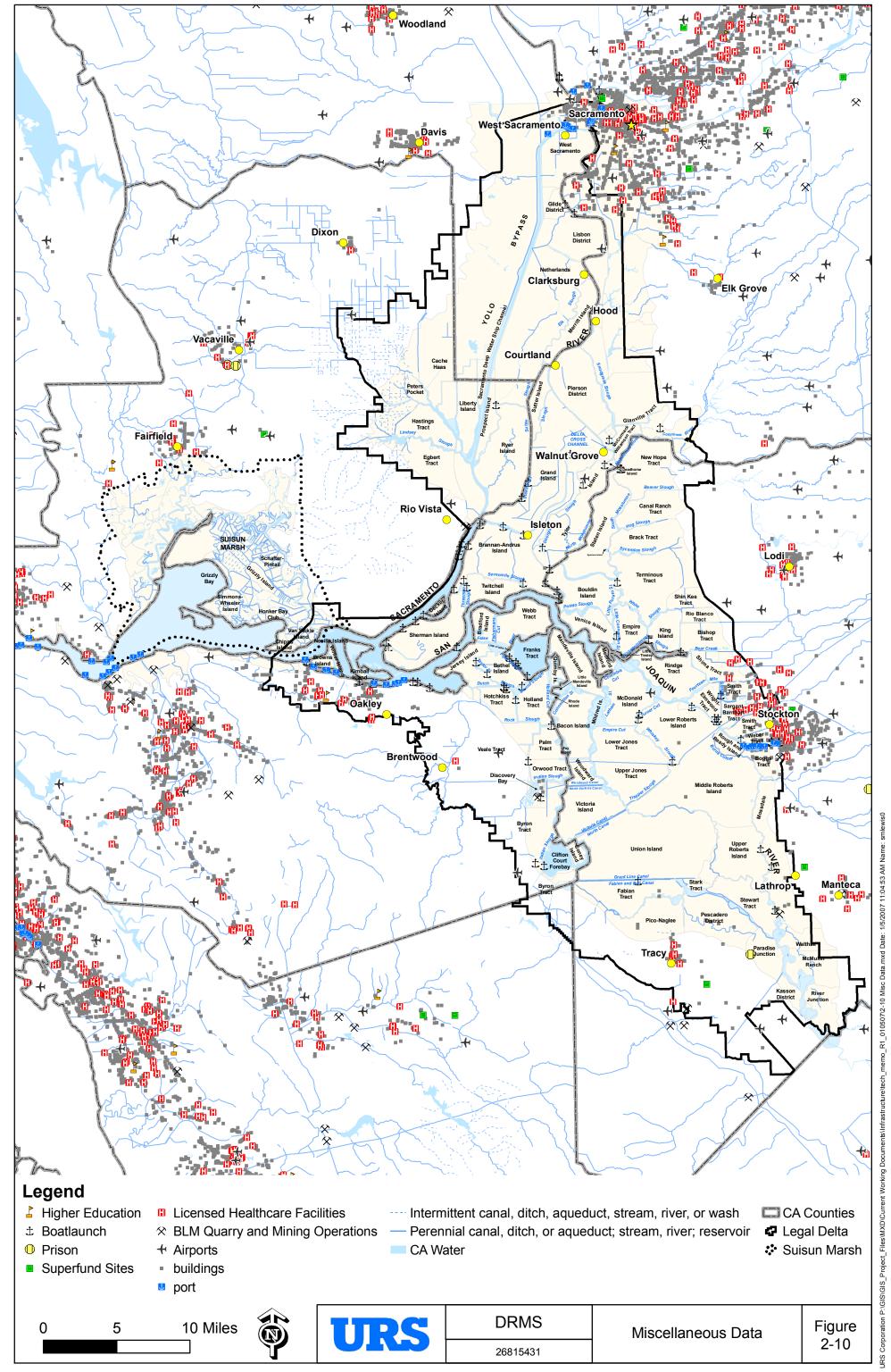


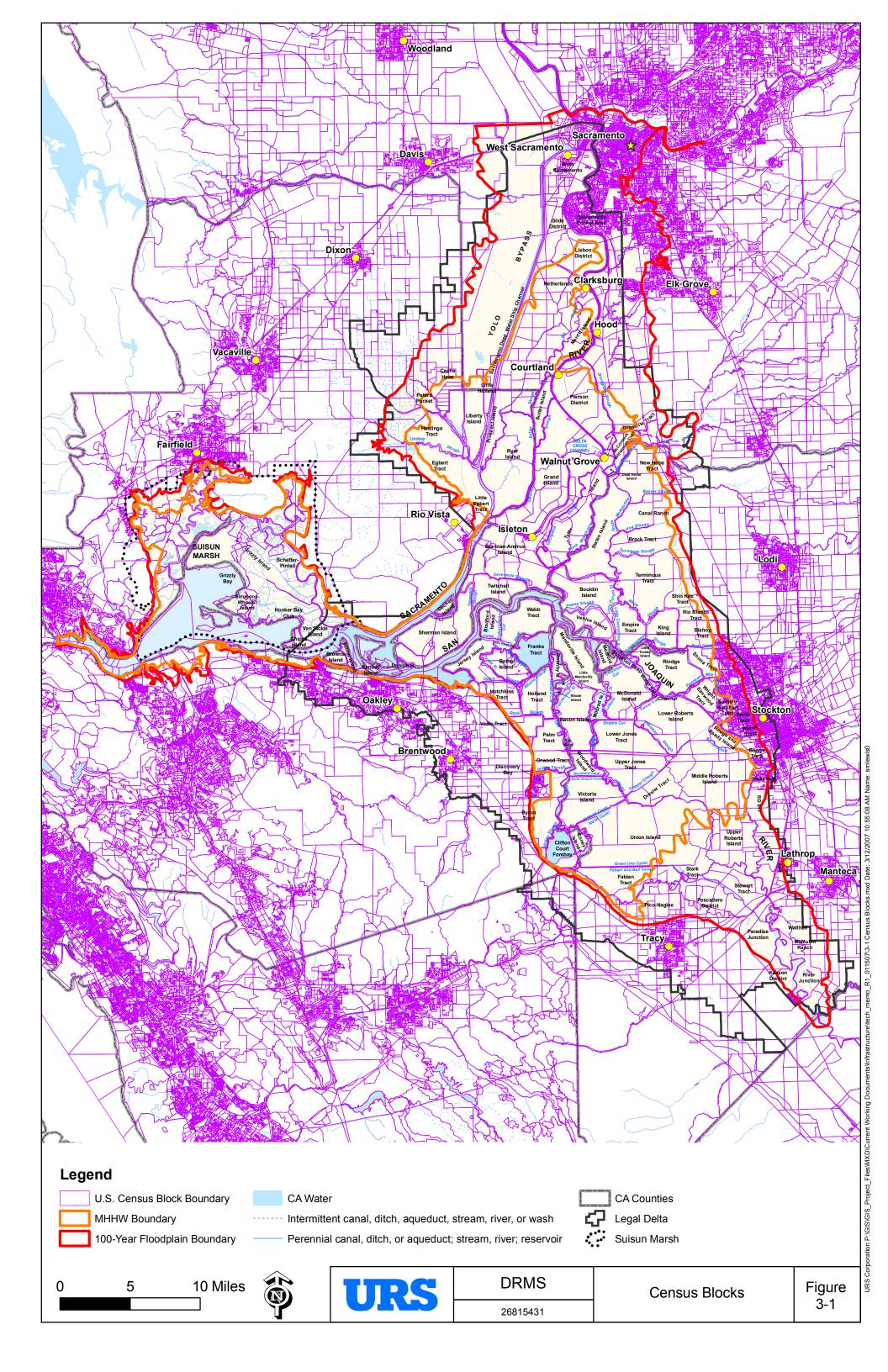


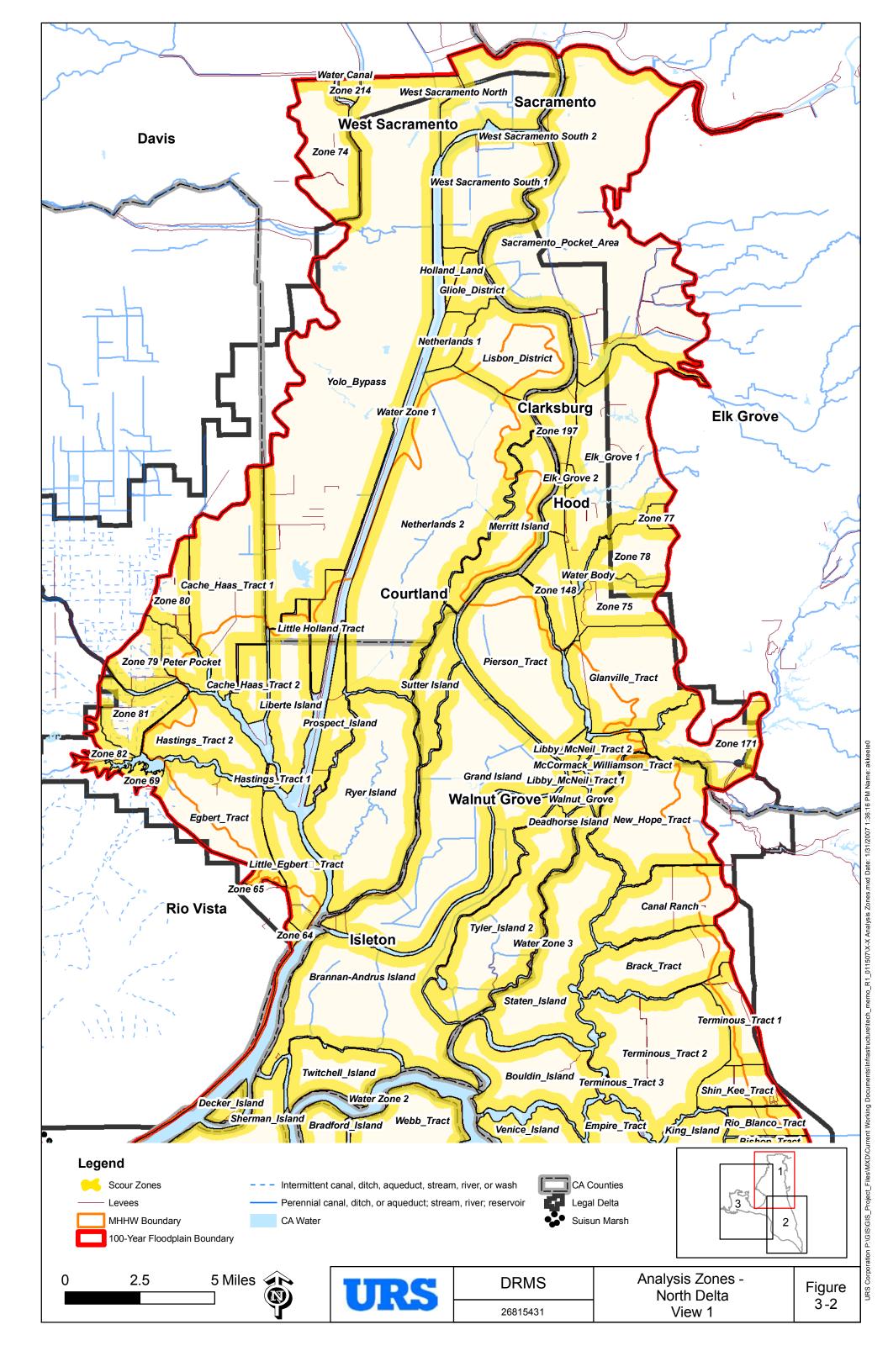


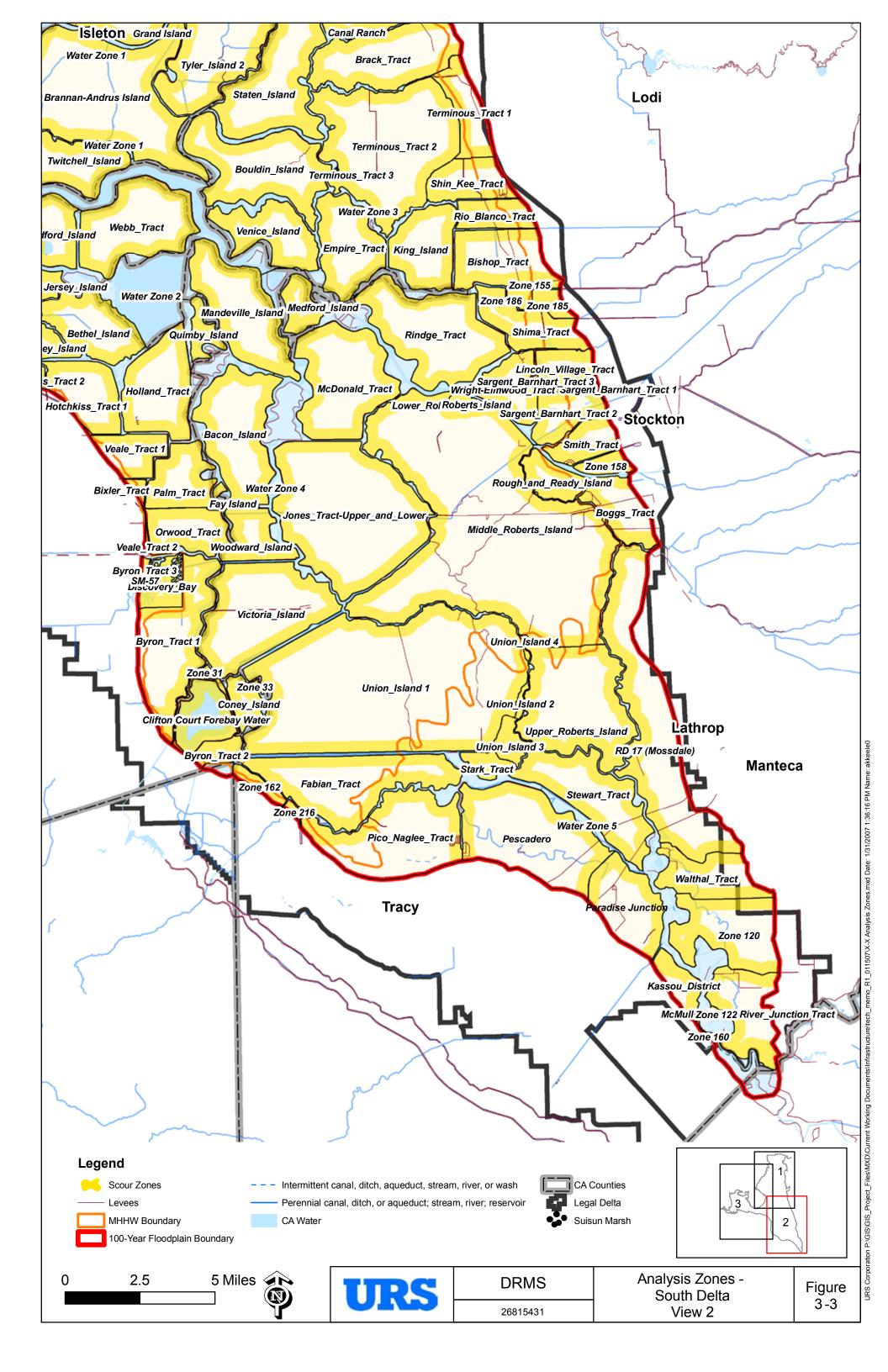


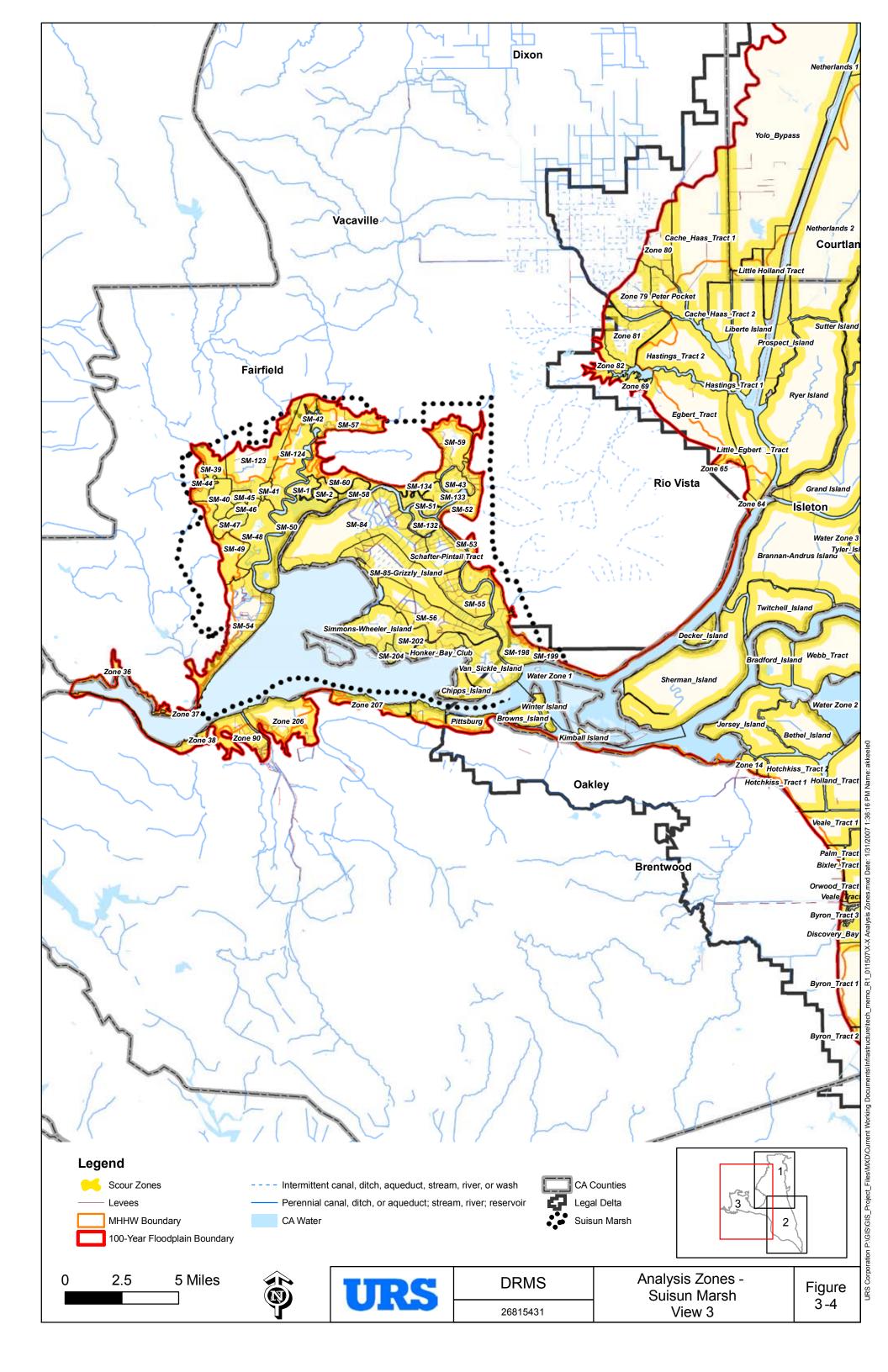


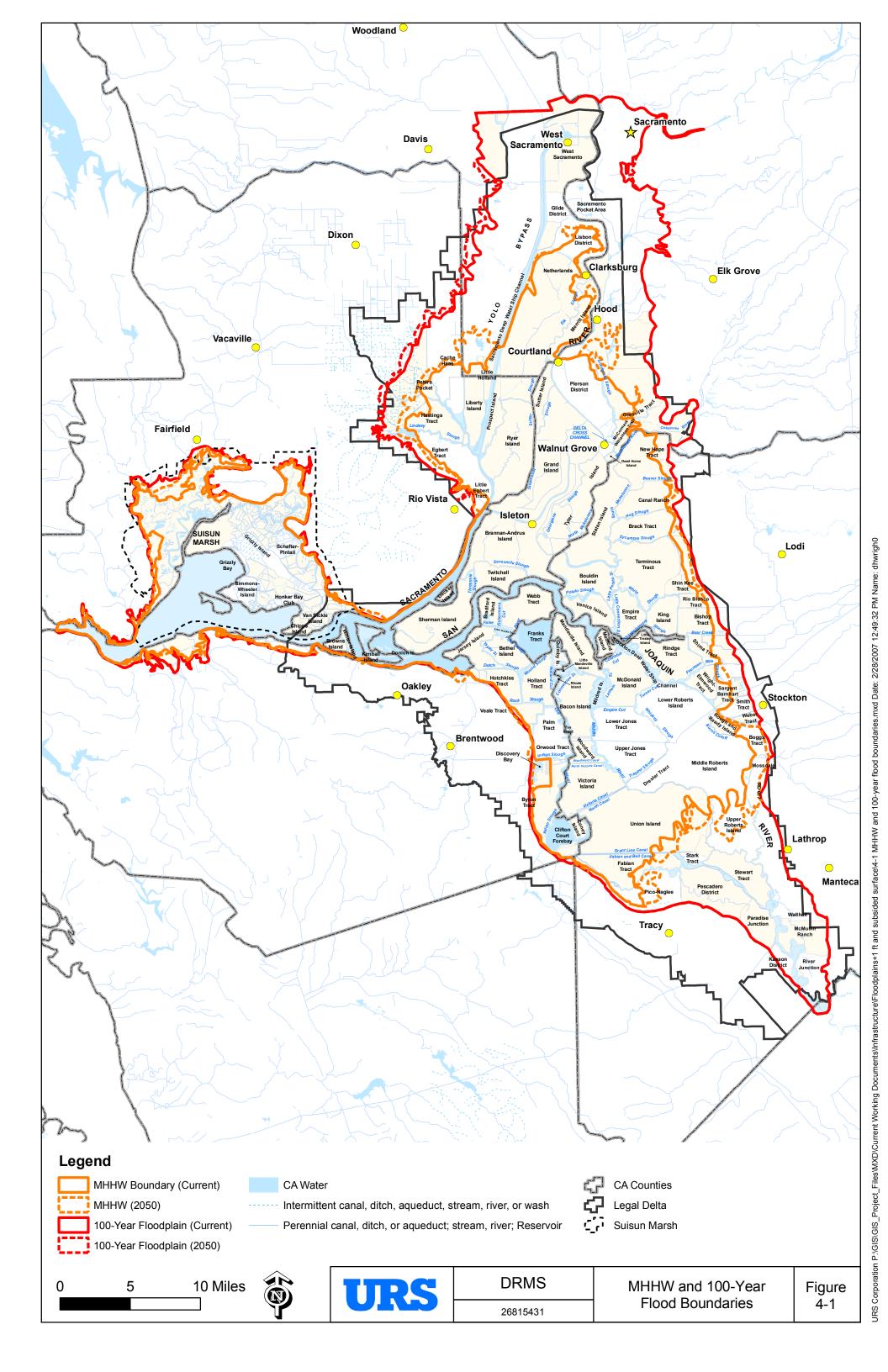


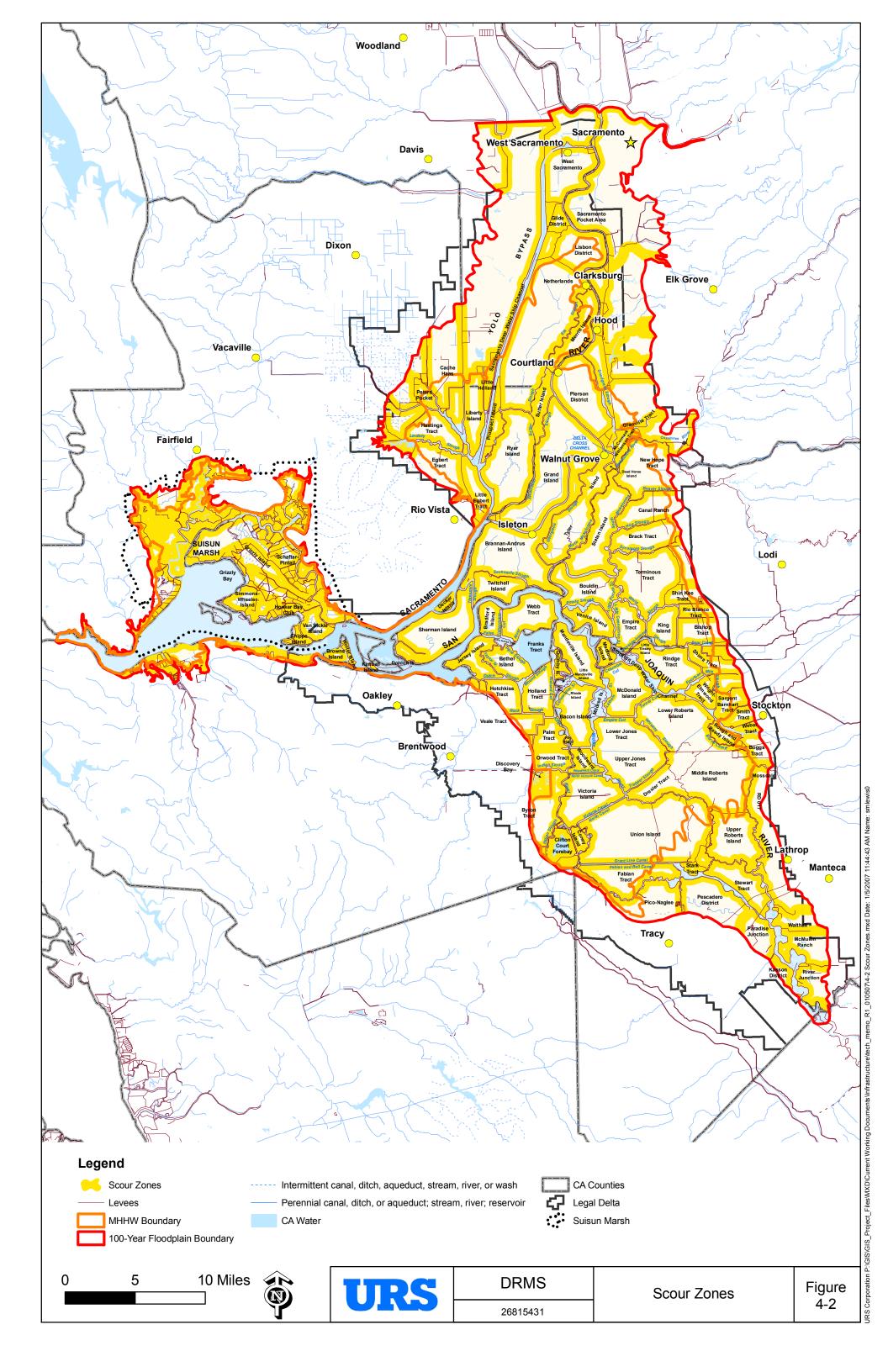


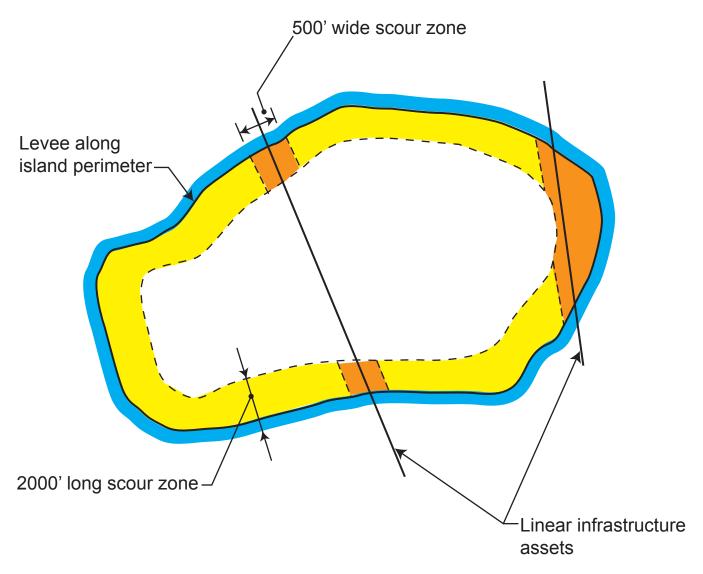












Not to scale

Legend:

2000' long scour zone around island perimeter

Zone of scour influence on linear infrastructure



DRMS

26815431

Schematic of Scour Zone Influence on Linear Infrastructure

Figure 4-3

Appendix A

Invitation To Meeting With Major Delta Asset Owners And Questionnaire

Appendix A presents the following information:

- 1. Meeting with Major Delta Asset Owners Invitation
- 2. Meeting with Major Delta Asset Owners Invitation List
- 3. Meeting with Major Delta Asset Owners Meeting Summary
- 4. Information Request Table (Questionnaire)

DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS

INVITATION

Date: October 2, 2006 Time: 9:00 AM – 1:30 PM

(Lunch provided)

Location: URS Corporation

1333 Broadway, Suite 800

Oakland, CA 94612

Under Assembly Bill (AB) 1200, California Department of Water Resources (DWR) and Department of Fish and Game (DFG) are required to evaluate the potential impacts on water supplies from the Delta and Suisun Marsh resulting from subsidence, earthquakes, floods, changes in precipitation, temperature, and ocean levels, and a combination of those impacts. The Delta Risk Management Strategy (DRMS) will assess major risks to the Delta resources from floods, seepage, subsidence, and earthquakes. It would also evaluate the state-wide consequences, and develop recommendations to manage these risks.

A large amount of infrastructure is located within the Delta. Some of the infrastructure crosses the Delta to other parts of California and provides vital resources such as water, gas, power, communications, shipping, and railroad freight transportation. Levee failure would cause direct physical damage to this infrastructure and could result in increased costs, lost sales, and environmental damages. Disruption of these In-Delta resources due to levee failure has the potential to cause extreme economic losses to the state and nation as a whole.

As part of the DRMS Project study, URS Corporation with Jack R. Benjamin & Associates have been retained by DWR to evaluate (1) the likelihood of damage to Delta infrastructure assets due to levee failure, (2) the cost of repairs to and restoration of the damaged infrastructure, (3) the estimated time required to make the repairs, and (4) economic costs caused by the disruption of services provided by the infrastructure. The results of the work covered under this part of the DRMS study will be used to estimate net revenue losses to various businesses, utilities, and transportation entities.

The purpose of this meeting is to brief major commercial and public entity asset owners on the DRMS effort and to elicit support/guidance and input to evaluate potential impacts to Delta infrastructure assets. The meeting agenda and background on the DRMS Project are attached.

We hope you will be able to attend this meeting. Please contact Mr. Michael Forrest, Senior Project Manager with URS, to indicate your attendance at the meeting:

Telephone: (510) 874-3012

Fax: (510) 874-3268

e-mail: michael forrest@urscorp.com



DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS

October 2, 2006, 9:00 AM – 1:30 PM URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612 Agenda

9:00 - 9:15	Welcome and Introduction
9:15 - 9:30	Purpose of Meeting
9:30 – 10:00	Briefing on the Delta Risk Management Strategy Study

- Objectives
- Schedule
- 10:00 10:30 Overview of Infrastructure Assets in the Delta and Their Location in the Projected Floodplain
- 10:30 10:45 Break
- 10:45 1:15 Information Requested of Delta Infrastructure Asset Owners
 - Asset definition/description
 - Historical cost of repairs to and restoration of damaged infrastructure
 - Time required to make the repairs
 - Estimated cost increases and revenue losses

(12:00 - 12:30Lunch will be provided)

1:15 – 1:30 Conclusions

DELTA RISK MANAGEMENT STRATEGY SUMMARY

There are approximately 1,115 miles of levees protecting 700,000 acres of lowland in the Sacramento-San Joaquin Delta. In the Suisun Marsh, there are approximately 230 miles of levees protecting over 50,000 acres of marsh land. A map of the Delta and Suisun Marsh is shown on the attached Figure 1.

During the last century, there have been 162 Delta levee failures leading to island inundations. In many cases, the flooding of the islands has been extremely costly to both local residents and farmers, and to the State as a whole. Levee failures in the Suisun Marsh have also occurred with significant impacts to local and statewide interests. In February 1998, 11 exterior levee breaches in the Suisun Marsh resulted in the inundation of over 22,000 acres and threatened both the State Water Project (SWP) and Central Valley Project (CVP) facilities.

California has an immense interest in maintaining many of the Delta and Suisun Marsh levees, in part because the Delta is a source of drinking water for about two out of every three Californians. In addition, there are important critical environmental, agricultural, and recreational benefits in the region. There are also extensive infrastructure and capital investments in the Delta, ranging from houses, businesses, and towns to State highways, rail lines, natural gas fields, gas and fuel pipelines, and drinking water pipelines (e.g., Mokelumne Aqueduct) and two deepwater ports.

The 2000 CALFED Record of Decision presented its Preferred Program Alternative that described actions, studies, and conditional decisions to help fix the Delta. Included in the Preferred Program Alternative for a Stage 1 implementation was the completion of a Delta Risk Management Strategy (DRMS) that would assess major risks to the Delta resources from floods, seepage, subsidence, and earthquakes. It would also evaluate the consequences, and develop recommendations to manage the risk.

The DRMS Project is an outgrowth of the risk management program element described in the Record of Decision. It is intended to accomplish the goals originally set forth in the Record of Decision for the risk management strategy, and to provide a set of alternative risk reduction plans that would be considered in subsequent decision/implementation phases. Risk reduction measures that would be common to all alternative plans would be recommended for immediate implementation.

The DRMS Project is being jointly conducted by the California Department of Water Resources and the United States Army Corps of Engineers (USACE) in conjunction with the California Department of Fish and Game (DFG). Under the Record of Decision, the DWR and USACE are the implementing agencies for the Levee program. Under the California Bay Delta Authority Act of 2003, DWR, DFG, and the USACE became the implementing agencies for the Levee Program. All three CALFED agencies coordinate their efforts with the California Bay Delta Authority. The CBDA is an oversight and coordination agency that will be working with the DWR, DFG, and the USACE to ensure that the Delta Risk Management Strategy is conducted in such a way that meets the CALFED Program objectives.



The goals and objectives of the DRMS Project are summarized below:

- Evaluate the risk and consequences to the State and to the Delta, including Suisun Marsh, associated with the failure of Delta levees and other assets considering their exposure to all hazards (seismic, flood, subsidence, seepage, climate change, etc.) under present as well as foreseeable future conditions. The evaluation will assess the total risk as well as a deaggregation of the risk for individual islands.
- Propose risk criterion for consideration of alternative risk management strategies and for use in management of the Delta and the implementation of risk informed policies.
- Develop a Delta Risk Management Strategy, including a prioritized list of actions to reduce and manage the risks or consequences associated with Delta levee failures.

Assembly Bill (AB) 1200 requires that DWR and DFG evaluate the potential impacts on water supplies from the Delta resulting from subsidence, earthquakes, floods, changes in precipitation, temperature, and ocean levels, and a combination of those impacts. AB 1200 also provides the following directives:

- DWR and DFG are to evaluate and comparatively rate the options available for advancing certain interests that relate to the Delta: and
- DWR and DFG are required to submit their written findings to the Legislature and Governor not later than January 1, 2008.



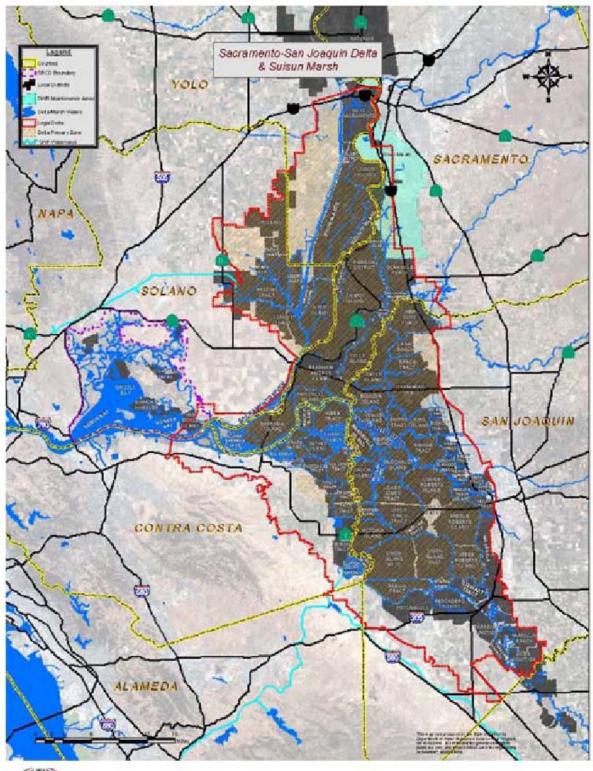




Figure 1 Map of the Delta and Suisun Marsh

MEETING WITH MAJOR DELTA ASSET OWNERS

Invitee List - Infrastructure/Asset Owners

				RSVP –
Agency	Name	E-mail Address	Telephone No.	Attend *
EBMUD	Randy Kanouse, Special Assistant to Gen. Mgr.	rkanouse@ebmud.com fax: (510) 287-0555 - Marie	(510) 287-0440	*
PG&E	Ben Morris	bem8@pge.com	(415) 973-7687	
	Richard Moss	rhm9@pge.com	(415) 973-6341	
	Geoff Bellenger	gjb2@pge.com	(415) 973-8415	
	Carl Orr	cdo1@pge.com	(415) 973-2920	
	Waymon Pon, Manager, Gas System Operations	wwp1@pge.com	(415) 973-3890	Yes
	Mark Esguerra, Supervising Engr., Electric Transmission Planning	Pme8@pge.com	(415) 973-4380	Yes
Western Area	Tom Boyko	boyko@wapa.gov	(916) 353-4416	*
Power Administration		see@wapa.gov - Marie		
BNSF Railroad	John Fleming	john.fleming@bnsf.com	(209) 460-6175	
	Russ Shelton	russ.shelton@bnsf.com	(323) 267-4106 (LA)	
	Kevin Shaw [Hill, Farrer, & Burrill, LLP (represents BNSF)]		(213) 621-0821	Yes
Union Pacific	Patrick Kerr	pakerr@up.com		
Railroad	Rick Gooch	rlgooch@up.com		
Port of Stockton	Richard Aschieris, Port Director	raschieris@stocktonport.com	(209) 946-0246	No
	J. Kaspar, Deputy Port Director	jkaspar@stocktonport.com		No
Port of Sacramento	Mike Luken, Port Manager	mikel@cityofwestsacramento.org	(916) 371-8000	
	Tom Scheeler, Port Engineer	toms@cityofwestsacramento.org	(916) 617-4880	Yes
Caltrans	Kome Ajise, Director, District 10	kome_ajise@dot.ca.gov	(209) 948-7943	Yes

Agency	Name	E-mail Address	Telephone No.	RSVP – Attend
	Doug Lange,	doug_lange@dot.ca.gov	(530) 741-4465	*
	Contract Manager,			
	District 3			
	Joe Caputo, District 3	joe.caputo@dot.ca.gov		*
	James Richards	james_richards@dot.ca.gov	(510) 286-5907?	
Kinder Morgan	D.R. Quinn	1100 Town & Country Rd. Orange, CA 92868 (sent by mail; e-mail N/A)	(714) 560-4940	* (V-M)
AT&T	Ken Lear, Director, Design & Construction, West Region	k12759@att.com	(925) 823-1070	* (V-M)
San Joaquin Council of	Dana Cowell, Deputy Director	dcowell@sjcog.org	(209) 468-3913	
Governments	Thomas Flinn, Public Works Director	tflinn@sjgov.org	(209) 468-3000	Yes? (tentative)
	Steve Winkler, Deputy Director/Ops			Yes? (tentative)
San Joaquin County	Roger Churchwell, Sr. Civil Engineer	rchurchwell@sjgov.org	(209) 953-7617	Yes
SMUD	Vicken Kasarjian	nsmith2@smud.org (for V.K.)	(916) 452-3211	No
CCWD	Marguerite Naillon	mnaillon@ccwater.com		Yes
	Leah Orloff, Sr. Water Resources	lorloff@ccwater.com		Yes
	Specialist			
	Greg Gartrell, Assist Gen Mgr	ggartrell@ccwater.com		No
Nomellini, Grilli, McDaniels	Dante Nomellini	ngmplcs@pacbell.net fax : (209) 465-3956 - Jeanne	(209) 465-5883	*

^{*} Followed by phone call and re-sent Invitation on 9/27/06. V-M = voicemail.

DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS

October 2, 2006, 9:00 AM – 1:30 PM **Meeting Summary**

Meeting Attendees

See attached list of attendees.

Purpose of Meeting

- Brief major commercial and public entity asset owners on the DRMS effort.
- Elicit support/guidance on input to evaluate potential impacts to Delta infrastructure assets.

The meeting agenda is attached.

Summary of Discussions

- There was a question about what levees does the Corps of Engineers have authorization to study/work on. The answer was that they should be able to study all of them, if they are Corps levees or not.
- Wendy asked everyone to figure out where their assets fell within the inundation zones (inundation described by the mean higher high tide and 100-year flood levels) shown on the GIS maps, and asked if assets would be repaired before the flooding receded or right away. Further, she asked if the assets could withstand long-term flooding (4 years), and if not, would repairs have to wait until the flooding receded. She asked what sorts of repairs would be achievable and at what cost. [The 100-year flood level may not need to be considered for infrastructure damage assessments due to its limited duration; to be determined.]
- There was discussion about what levels of floods/inundation the participants should focus on. Are we looking at 200-year or 500-year floods? The answer was that we're looking at all levels; this will be clarified as we proceed in the studies. [Such flood levels will be considered for levee fragility considerations, but do not appear to be applicable to infrastructure damage assessments].
- We will be using HAZUS and our own modeling to calculate damage. HAZUS is okay for calculating damage to residences, not infrastructure. Steve from DWR is working on updating parcel level information, which will include crop information, for use in these models.
- There was a question about how climate change will be examined on top of sea level rise. Sea level rise is a factor of both thermal expansion and ice melt. Sea level rise is currently projected to rise between 6 inches and 2 feet over the next 100 years. Climate change can include changing weather patterns and other factors outside sea level change. Inundation maps for 50, 100, and 200 years in future will be created once the Climate Change group finishes their modeling.
- Wendy asked what impacts might customers/others outside the Delta be subjected to if infrastructure within the Delta was damaged.
- Restoration projects may restore an average of 500 acres/year, but there is an ultimate cap to the number of acres that will be restored.

- Wayman Pon (PG&E) asked if he should focus on transmission or distribution. The answer was both, or whatever made the most sense to consider damage, cost, or impact on users. He thought that transmission systems would be his main focus.
 - The gas pipelines are buried, 42-inch diameter pipes. A new pipeline is to be built; it will be 50 feet deep. [When will it be built, and where?]
- If a transmission line tower were to fail, it could cause multiple tower failures. There is redundancy in electric transmission lines. However, all of the redundant lines go through the Delta, and some of them in common rights-of-way.
- A question was asked about scour zone. This zone is basically within 2,000 feet of the levees; this is the length of the scour zone. Scour depths are estimated to be as deep as 50 feet. The scour zone is deepest in the middle and tapers off at both the entrance and exit ends. Any asset with a foundation that extends well below 50 feet (piles) or buried deeper than 50 feet within this zone would be okay in the event of a flood/breach. Any asset in the zone founded above 50 feet would probably fail.
- Roger Mann had a question about natural gas production in general. Natural gas production
 has been declining over time. That produced in the Delta represents less than 10% of total
 state usage. There is a major underground storage facility for NG that had been flooded in the
 past, but still functioned. It is believed that the facility would be okay in the event of a
 breach/flood.
- Said asked if there was redundancy in the electrical system. The answer was yes, but that does not solve all problems if the flood is big enough that it knocks out all systems or if it knocks out enough primary systems that the redundant systems cannot handle the impact.
- Roger Mann asked if a flood of significant duration could impact utilities enough to
 negatively impact service. The answer from PG&E was not necessarily; it would cost more
 (either to the company or to other customers).
 - Gas lines were developed for 30-90 year extreme (demand) events, such as winter storms. If a loss of a pipeline coincided with an extreme event (where demand peaks), there may be impacts such as increased prices and gas shortages.
- There was a discussion about the sensitive nature of some of the infrastructure/utility data. The consensus seemed to be that we could work around any of those issues. Tom Baily suggested consulting with the State OHS, but others thought that that would not be necessary.
- Tom Scheeler, from the Port of Sacramento, discussed potential of levee breaks near the Port of Sacramento. If the west levee broke but the east levee did not, West Sacramento could flood. If the levees broke on the eastern side, or just outside the Delta boundary, Sacramento could flood. Even though we are tasked to consider risk within the Delta boundary, it may be worthwhile to consider similar impacts of breaches outside the Delta, but within the same levee system. [Scope issue.]
- Lea Orloff and Marguerite Naillon, Contra Costa Water District, discussed impacts to pump stations during a flood. Depending on the depth of the flood, most stations are built to withstand impacts. CCWD needs to know the flood levels. The levee protection has been built to modern standards. They are more concerned about water quality; if the water

becomes too salty, 500,000 people would lose water service. Marguerite recommended that we contact Chris Nuedeck about the levee protection system of CCWD assets.

- Roger Churchwell, San Joaquin County Public Works, was concerned about studying global warming impacts in such a small, specific area. Global warming has regional, state, national, etc. impacts. It is thought that the impacts to the Delta from global warming may help policymakers prioritize Delta actions. It may not be worth spending a lot of money to maintain specific Delta benefits if those benefits are destined to disappear anyway.
- Mike will send the Information Request Table by e-mail to the asset owner meeting attendees
 and to the asset owners that were invited but did not attend the meeting. He will also send the
 DRMS website link to the asset owners where they will be able to access the meeting
 PowerPoint presentation. [Done.]
- The asset owners were asked to provide points of contact for URS.
- We agreed that there will be a follow—up meeting with the asset owners in mid-November, after we have some information on potential cost of infrastructure damage.



DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS

October 2, 2006, 9:00 AM – 1:30 PM URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612 Agenda

9:00 - 9:15	Welcome and Introduction
9:15 - 9:30	Purpose of Meeting
9:30 - 10:00	Briefing on the Delta Risk Management Strategy Study

- Objectives
- Schedule
- 10:00 10:30 Overview of Infrastructure Assets in the Delta and Their Location in the Projected Floodplain
- 10:30 10:45 Break
- 10:45 1:15 Information Requested of Delta Infrastructure Asset Owners
 - Asset definition/description
 - Historical cost of repairs to and restoration of damaged infrastructure
 - Time required to make the repairs
 - Estimated cost increases and revenue losses

(12:00 - 12:30 Lunch will be provided)

1:15 – 1:30 Conclusions

DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS

October 2, 2006, 9:00 AM – 1:30 PM **List of Attendees**

Name	Organization	Telephone Number	E-mail
Ralph Svetich	DWR	916-651-7020	rsvetich@water.ca.gov
Steve Cowdin	DWR	916-653-8166	scowdin@water.ca.gov
Joel Dudas	DWR	916-651-7002	jdudas@water.ca.gov
Mike Forrest	URS	510-874-3012	Michael_forrest@urscorp.com
Said Salah-Mars	URS	510-874-3051	Said_salah-mars@urscorp.com
Tom Baily	URS	510-874-3166	Thomas_baily@urscorp.com
Ram Kulkarni	URS	510-874-3045	Ram_Kulkarni@urscorp.com
Amy Keeley	URS	510-874-3259	Amy_Keeley@urscorp.com
Mike Citro	URS	510-874-1739	Mike_citro@urscorp.com
Mark Mazzola	URS	510-874-3028	Mark_mazzola@urscorp.com
Wendy Illingworth	Economic Insights	831-427-2163	wendy@econinsights.com
Rick Rhoads	Moffatt &Nichol	925-944-5411	rrhoads@moffittnichol.com
Roger Mann	Rmecon	530-756-1884	rmecon@sbcglobal.net
Bob Twiss	Consultant	415-454-5610	twiss@rtasc.com
Kevin Shaw	BNSF R.R.	213-621-0821	kshaw@hillfarrer.com
Leah Orloff	CCWD	925-688-8083	lorloff@ccwater.com
Marguerite Naillon	CCWD	925-688-8018	mnaillon@ccwater.com
Mark Esguerra	PG&E	415-973-4380	Pme8@pge.com
Wayman Pon	PG&E	415-973-3890	Wwp1@pge.com
Thomas Scheeler	Port of Sacramento	916-617-4882	toms@cityofwestsacramento.org
Roger Churchwell	San Joaquin Co.	209-953-7617	rchurchwell@sjgov.org

DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS INFORMATION REQUEST TABLE

Item		
No.	Information Request/Question	Information Provided/Response
1	Asset Definition/Description: Are "as-built" drawings	_
	available showing basic details and dimensions of the	
	infrastructure?	
	a. Confirmation of the location, number, and	a.
	physical description (e.g., diameters of pipelines,	
	number of towers, length of other assets).	
	b. Information along island perimeters, such as	b.
	slough cross-sections at pipeline/ bridge	
	crossings.	
	c. Information on any flood protection (such as	c.
	the height of berms around asset, reinforcement	
	of structures). Information on any seismic	
	retrofit; if retrofitted, what was the seismic	
	design criteria?	d.
	d. Type of foundation (e.g., spread footings,	a.
	piles – range of depths, etc.). e. Installation descriptions, such as above or	e.
	e. Installation descriptions, such as above or below ground; pipe cover depths in sloughs and	е.
	across islands.	
2	Historical Data:	
	a. Repair Costs: Do you have historical	a.
	information on events that resulted in damage or	u.
	failure of infrastructure? If so, what was the date	
	of each event, the extent of the damage/failure,	
	associated costs for repairs, time to complete	
	repairs and the total outage time?	
	b. <u>Time for Repairs</u> : What is the expected	b.
	outage time to make repairs of a failure/damage	
	caused by a levee breach? Would you need to	
	wait for the island to be drained before repairing	
	the infrastructure? If yes, what would you do if	
	flooding was extensive and prolonged? If not,	
	what would be the impact of continued flooding	
	on your repair costs?	
	c. <u>Effect on Operations</u> : How did the outage	c.
	affect your operations? Please provide an	
	estimate of revenue loss and/or increase in	
	operating costs (other than repair costs) for the	
	above outage time.	
3	Effect on Customers: What effect did outages have on	
	customers? (e.g., reduced product deliveries, higher	
	prices) How would customers be affected if the outage	
	was more prolonged? What length would the outage	
	have to be to result in more serious effects on	
	customers?	

Item No.	Information Request/Question	Information Provided/Response
4	Trends: Do you have any plans to increase or decrease the capacity of your assets in the Delta? What is the expected time frame?	
5	Vulnerability Assessments: Have you performed any assessments, such as asset and business vulnerability assessment associated with events in the Delta (island flooding, seismic, wind events, etc.)? If so, can these studies be made available?	
6	Other Considerations: Is there any other information about your assets in the Delta that you think we should consider for our analysis?	

We appreciate your effort to obtain the requested information. We would appreciate any information that you can provide by October 23, 2006. Please contact me if you have any questions. Thank you:

Michael Forrest, Senior Project Manager URS Corporation, 1333 Broadway, Suite 800, Oakland, CA 94612

Telephone: (510) 874-3012 Fax: (510) 874-3268

e-mail: michael_forrest@urscorp.com

Appendix B
Data Provided by Asset Owners

Appendix B presents the following information:

- 1. Meeting with Major Delta Asset Owners, Information Request Table EBMUD
- 2. EBMUD Meeting Notes
- 3. Meeting with Major Delta Asset Owners, Information Request Table PG&E (Gas Transmission)
- 4. PG&E Meeting Notes
- 5. Meeting with Major Delta Asset Owners, Information Request Table PG&E (Electric Transmission)
- 6. Meeting with Major Delta Asset Owners, Information Request Table CCWD



DELTA RISK MANAGEMENT STRATEGY

MEETING WITH MAJOR DELTA ASSET OWNERS INFORMATION REQUEST TABLE - EBMUD

T.	INFORMATION REQUEST	
Item		
No.	Information Request/Question	Information Provided/Response
1	Asset Definition/Description: Are "as-built" drawings available showing basic details and dimensions of the infrastructure? f. Confirmation of the location, number, and physical description (e.g., diameters of pipelines, number of towers, length of other assets).	Yes. Only be available for review on a need to see basis due security concerns related to water supply systems. a. Mokelumne Aqueducts – 3 large diameter pipelines, 14 miles Stockton to Bixler. 4 miles of buried pipelines, 10 miles of elevated pipelines. Three river crossings, San Joaquin River, Middle River, and Old River with two over water segments at Trapper Slough and Werner Cut.
		Aqueduct #1 constructed in 1929, 65 inch diameter welded steel pipe with riveted joints, coal tar coated inside and out, elevated portions on concrete and wood bents on wood piles, river crossings are 1929 vintage. 41 MGD gravity flow, 67 MGD pumped.
		Aqueduct #2 constructed in 1947, 67 inch diameter welded steel pipe with double welded joints, buried portions are concrete coated and cement mortar lined, elevated portions are inorganic zinc coated and cement mortar lined, elevated portions on steel bents and concrete piles. River crossings are 1929 vintage. 54 MGD gravity flow, 87 MGD pumped.
		Aqueduct #3 constructed 1962, 87 inch diameter welded steel pipe with seismically reinforced welded joints in buried sections and 1962 vintage river crossings, elevated portions are on seismically reinforced steel bents and concrete piles. Buried portions are concrete coated and cement mortar lined. Elevated portions are red lead and aluminum paint coated and cement mortar lined. 105 MGD gravity flow, 152 MGD or 172 MGD pumped.
		All there pipelines are on a fee owned 100 foot wide right of way, each has an impressed current cathodic protection system. There are also right of way cross drainage systems and an all weather road paralleling the pipelines.



Item No.	Information Request/Question	Information Provided/Response
1 cont'd.	g. Information along island perimeters, such as slough cross-sections at pipeline/ bridge crossings.	b. Yes. Only be available for review on a need to see basis due security concerns related to water supply systems.
	h. Information on any flood protection (such as the height of berms around asset, reinforcement of structures). Information on any seismic retrofit; if retrofitted, what was the seismic design criteria?	c. Aqueduct #3 is reinforced to MCE criteria. Aqueduct #1 and #2 are designed to the standards of the dates they were installed. Aqueducts are not specifically protected against flooding. Flood protection is provided by Reclamation District 684 Lower Roberts Island, 2038 Lower Jones Tract, 2039 Upper Jones Tract, 2072 Woodward Island and 2024 Orwood-Palm Tract.
	i. Type of foundation (e.g., spread footings, piles – range of depths, etc.).	d. All elevated portions of the aqueducts are on bents and piles. See a. for details. Pile depth data is available.
	 j. Installation descriptions, such as above or below ground; pipe cover depths in sloughs and across islands. 	e. See a. above. Buried pipe depths are nominally 5 feet.
2	Historical Data: d. Repair Costs: Do you have historical information on events that resulted in damage or failure of infrastructure? If so, what was the date of each event, the extent of the damage/failure, associated costs for repairs, time to complete repairs and the total outage time?	a. Upper Jones Tract flood 2004. Aqueduct coating damage is estimated at \$10 million. Right of way drainage repairs and cleanup cost is about \$500,000. Aqueduct remained in service during flooding and recovery. Coating repairs to take place 2007 and 2008.
	e. <u>Time for Repairs</u> : What is the expected outage time to make repairs of a failure/damage caused by a levee breach? Would you need to wait for the island to be drained before repairing the infrastructure? If yes, what would you do if flooding was extensive and prolonged? If not, what would be the impact of continued flooding on your repair costs?	b. Repair times depend on the extent of damage. 6 month is the maximum outage EBMUD has Aqueduct recovery plans for.
	f. <u>Effect on Operations</u> : How did the outage affect your operations? Please provide an estimate of revenue loss and/or increase in operating costs (other than repair costs) for the above outage time.	c. Aqueduct flows were not interrupted. Increased operating costs are included in damage cost estimates and were primarily for flood fighting support to DWR and San Joaquin County.
3	Effect on Customers: What effect did outages have on customers? (e.g., reduced product deliveries, higher prices) How would customers be affected if the outage was more prolonged? What length would the outage have to be to result in more serious effects on customers?	No direct impacts on customers because water supply was not interrupted. Continued operations during prolonged flooding (without structural damage to the aqueducts) may be possible. Additional protective measures may be necessary during the flood event.
		Structural damage to one or more aqueduct pipelines causing an extended outage (on the order of 6 months or more) could cause serious effects, including emergency rationing to conserve local supplies. The severity of the outage and ability to access alternate supplies would influence the extent of rationing.

Item No.	Information Request/Question	Information Provided/Response
3 cont'd	Information requests Question	Construction of a 30 mgd Emergency Intertie between the SFPUC and EBMUD systems in Hayward is nearing completion and an Emergency Intertie with CCWD (60-100mgd) near Oakley will be constructed over the next year or so. The availability of alternate supplies would depend on whether other water systems remain operable after a major emergency.
4	Trends: Do you have any plans to increase or decrease the capacity of your assets in the Delta? What is the expected time frame?	There are no current plans to increase or decrease the capacity of EBMUD assets in the delta.
5	Vulnerability Assessments: Have you performed any assessments, such as asset and business vulnerability assessment associated with events in the Delta (island flooding, seismic, wind events, etc.)? If so, can these studies be made available?	Any Vulnerability Assessments completed for security purposes cannot be made available. A probabilistic seismic analysis for the delta portion of the aqueducts was completed for EBMUD's 1993 Water Supply Management Program and is available.
6	Other Considerations: Is there any other information about your assets in the Delta that you think we should consider for our analysis?	The Mokelumne Aqueducts are vital to the health and safety of 1.3 million people in the East Bay. Emergency response planning done as part of the Delta Risk Mgt Strategy should recognize this.

We appreciate your effort to obtain the requested information. We would appreciate any information that you can provide by October 23, 2006. Please contact me if you have any questions. Thank you:

Michael Forrest, Senior Project Manager URS Corporation, 1333 Broadway, Suite 800, Oakland, CA 94612

Telephone: (510) 874-3012

Fax: (510) 874-3268

e-mail: michael_forrest@urscorp.com



DRMS PROJECT - DELTA ASSETS

EBMUD Meeting Notes November 13, 2006, 11:45 - 12:00

Meeting Participants

EBMUD:

Xavier Irias – Director of Engineering

Clifford Threlkeld – Manager, Water Supply Division

Brian Campbell – (URS point of contact: <u>bcampbel@ebmud.com</u>; tel: 510-287-0680)

URS:

Mike Forrest

Discussion

- 1. It is assumed that the Mokelumne Aqueduct (M.A.) consists of three pipelines along the entire route where it crosses the Delta.
- Assumption is correct.
- 2. Where is M.A. elevated and where is it buried?
- Stockton to Whiskey Slough Buried section.
- Whiskey Slough to Bixler (just west of Palm-Orwood Tract) Elevated Section, except at slough crossings at Middle River and Old River.
- West of Bixler Buried section.
- Slough crossings The M.A. #3 is buried 30 feet below the river bottom. For 250 feet on each side of the pipeline, the M.A. #3 has been encased in backfill, part of which is rock. See Exhibit 2-3, Initial Study and Mitigated Negative Declaration for the Mokelumne Aqueduct Seismic Upgrade Project (March 1996).
- 3. Depth of piles along elevated M.A., especially within 2000 feet of the island perimeters (scour issue).
- Figure 4-1 of the Final Report, Mokelumne Aqueduct Seismic Upgrade Project, Preliminary Design (August 3, 1995), shows pile embedment lengths for the M.A. EBMUD confirmed that embedment depths shown on Figure 4-1 are typical.
- 4. Can a breached M.A. be repaired prior to pump out (i.e., repaired underwater)?
- If a M.A. pipeline is breached, it can and would be repaired underwater, prior to island pump out, to restore service. Repairs would include underwater welding. EBMUD is prepared for this event. After island pump out, final repair work would be done. EBMUD has not yet had to repair pipelines underwater. EBMUD was not able to give estimates of cost and time to repair a breached pipeline; the work would be done under time and materials contract.



- 5. What was length of M.A. needing repairs following the June 2004 Jones Tract failure? Did all three aqueducts need repair?
- Damaged pipelines (but still able to operate), such as at Jones Tract (June 2004), are repaired after island pump out. The repair costs to the three M.A. pipelines for the Jones Tract failure was \$10.6 million, for a length of 51/4 miles. [The repair cost for inundation (non-breach failure) of the M.A. is \$2 million per mile for all three pipelines].
- 6. What is the vulnerability of the M.A. to scour?
- EBMUD said that scour is unlikely where the M.A. is buried under the sloughs, at the crossings; see also #2 above. Failure may occur due to seismic shaking at the slough crossings.
- Where scour at a levee occurs, M.A. #3 may survive as long as the scour did not occur right at the pipeline location. M.A. #1 and #2 are vulnerable to scour failure.
- 7. What if repair times > 6 months (e.g., in a major earthquake)? What are options if one or more pipelines are out of service?
- The six months is the repair time window for M.A. #3. This window would be longer for M.A. # 1 and #2.
- EBMUD is not counting on SFPUC or CCWD in the event of an emergency. Water rationing/conservation would be initiated. Revenue losses to EBMUD could be significant, but EBMUD could not indicate what they might be. For short outages (e.g., one month), EBMUD would use water from their local reservoirs. (See URS IDS Risk Analysis Report, May 2005, for revenue loss estimates). Customer losses would be even more significant, especially for industrial customers.
- 8. We wanted to know whether the Freeport diversion project would be expected to operate if the levee it is on or near were to be breached. That is, we need to know whether we can assume that the project will always be in place once it is completed, or whether we should consider alternatives where it is out of commission, and how long it might be out of commission. We would like to check for whatever available information you have so that we may be able to answer this question.
- Sacramento will use the Freeport diversion facility "all the time". EBMUD will use the facility for 3 years of 10 years (as part of drought planning). The levees at the facility are urban levees and are to be reinforced (Corps levees). The levees and the diversion facility are likely to be okay against flooding. If we need more information on the Freeport diversion facility, we will need to contact the Joint Powers Authority on the project.

DELTA RISK MANAGEMENT STRATEGY

MEETING WITH MAJOR DELTA ASSET OWNERS

INFORMATION REQUEST TABLE - PG&E (Gas Transmission)

Item		ON REQUEST TIME TOWN (Gus Transmission)
No.	Information Request/Question	Information Provided/Response
1	Asset Definition/Description: Are "as-built" drawings available showing basic details and dimensions of the infrastructure?	Under the jurisdiction of the DOT and CPUC, PG&E maintains extensive drawings for its gas pipeline facilities. PG&E and other regulated pipelines submits Geospatial Data of our natural gas Transmission Pipeline to the NPMS, National Pipeline Mapping System. The dissemination of this data is regulated by the government as described on the NPMS web site: http://www.npms.rspa.dot.gov/application.asp?tact=Data&page=subapp.asp?app=data&act=data_req
	a. Confirmation of the location, number, and physical description (e.g., diameters of pipelines, number of towers, length of other assets).	Total Transmission Pipelines - 434 Miles includes: Backbone (L400/401) 83 miles 26" to 42" OD Local Transmission/DFM 156 miles 4" to 24" OD Gas Gathering 135 miles 2" to 16" OD McDonald Island Storage 33 miles 6" to 24" OD StanPac 27 miles 10" to 16" OD The above does not include gas distribution pipelines operated below 60 psig, the majority of which provide gas to a limited number of localized customers except in major cities. The McDonald Island pipeline system includes all underground storage and delivery pipelines.
	b. Information along island perimeters, such as slough cross-sections at pipeline/ bridge crossings.	PG&E has used several methods for installing gas pipelines at water crossings: 1. Exposed "overhead crossings" - generally used at shorter ditch crossings; 2. Hung-on-bridge crossings - very limited use due to required permissions involved and limited-availability; 3. Trenching - widely used for short to river-wide lengths in which a pipe was originally installed approximately 5 feet deep following the contours of the levee and stream-bed with a concrete water-break-wall on the top of the levee. 4. Horizontal Directional Drilling (HDD) - Initiated in the mid-70s and widely adopted in the mid-80s for water crossings; benefits are ease of construction and reduced permitting and environmental issues. HDD construction will be extensively used for the installation of Line 57C for the McDonald Storage Field.



Item			
No.		Information Request/Question	Information Provided/Response
	c.	Information on any flood protection (such as the height of berms around asset, reinforcement of structures). Information on any seismic retrofit; if retrofitted, what was the seismic design criteria?	The majority of PG&E's gas assets are buried which provides the greatest protection compared to other construction alternatives. At levee crossings, a concrete water-break-wall (approximately 3'x3') is used on the crown to prevent water channeling along the pipe. Generally, pipelines installed within flood zones use a concrete coating or other anchoring technique to reduce the risk of floating. McDonald Island storage facility is the most critical PG&E facility in the area which could be impacted by flooding. However, its design is such that the critical equipment is constructed on platforms and valves would be identified with buoys if flooding occurs. The facility would still operate in a flooded condition, although at a reduced capacity. At PG&E's interconnection with Lodi Storage Field pipeline on Sherman Island, electrical equipment is located on an elevated second-story platform. If flooding occurs and this interconnection is isolated, continued operations is possible using redundant metering and control equipment at the upstream compressor station located approximately 30 miles away near Lodi.
1	d.	Type of foundation (e.g., spread	In the few locations where footings are used either mat foundation or pilings were designed and
cont'd.		footings, piles – range of depths, etc.).	installed based upon engineering calculations and field conditions.
	e.	Installation descriptions, such as above or below ground; pipe cover depths in sloughs and across islands.	PG&E's standard is to install pipelines at a depth of 5 feet or greater which exceeds DOT standards (30" to 36"). A description of crossing alternatives is provided in Item 1.b above but the majority of river and slough crossings were installed using trenching techniques where the pipeline follows the contour of the river bottom and levee. The pipeline delivering gas from the McDonald Storage facility (Line 57B) will have a parallel pipeline installed by 2007 to increase reliability. The new pipeline (Line 57C) will use the latest technology to minimize risk to the pipeline if islands flood. The river crossings will be installed with horizontal directional drills (HDD) which will put the pipeline more than 60 feet below the river and away from the potential scour of a levee break. Line 401 also was installed in 1993 with HDD at river crossings. Line 400 (installed in 1963 with conventional trench construction across rivers) was installed with parallel pipelines across Sherman Island between and the San Joaquin and Sacramento River crossings for improved reliability.

Item		
No.	Information Request/Question	Information Provided/Response
2	Historical Data: a. Repair Costs: Do you have historical information on events that resulted in damage or failure of infrastructure? If so, what was the date of each event, the extent of the damage/failure, associated costs for repairs, time to complete repairs and the total outage time?	Mildred Island was flooded in the early-90s. From October 1 to November 1, 1995, a 120' section of Line 57A that had floated was anchored at a cost of approximately \$200,000. Again, on June 7, 2002, a 40' section of .Line 57A was re-anchored after it floated at a cost of \$75,000. A levee break on Red Bridge Slough occurred in early February 1997 and \$53,000 was spent from February 14 to March 7 for emergency restoration of Line 108 (engineering evaluations and temporary supports). Later from May 21 to June 20, 1997, PG&E replaced 1000' of Line 108 at a cost of \$215,000. Customer services outside the flooded area were not disrupted. For comparison purposes, a more recent relocation project for Line 196 on Staten Island due to shallow cover cost approximately \$300 per foot of installed pipeline. Earlier this year, PG&E was informed that Grizzly Island (Suisun Wildlife Refuge) was flooded. However, PG&E's Line 182 and gas well meters were not adversely impacted.
	b. Time for Repairs: What is the expected outage time to make repairs of a failure/damage caused by a levee breach? Would you need to wait for the island to be drained before repairing the infrastructure? If yes, what would you do if flooding was extensive and prolonged? If not, what would be the impact of continued flooding on your repair costs?	Repair time can vary from hours to years depending upon the extent of damage and the necessity for immediate repair. This would be very difficult to predict without specific information and location. Generally, emergency response such as closing isolation valves or installing temporary supports is followed—up later with a permanent repair under drier field conditions. Construction periods are provided for the above situations.
	c. Effect on Operations: How did the outage affect your operations? Please provide an estimate of revenue loss and/or increase in operating costs (other than repair costs) for the above outage time.	Effects of the above incidents were minimal. Gas was generally rerouted so there were no significant customer outages. PG&E can minimize or eliminate the potential for outages when connecting relocated pipe by the use of "by-pass" fittings that allow uninterrupted connections.
3	Effect on Customers: What effect did outages have on customers? (e.g., reduced product deliveries, higher prices) How would customers be affected if the outage was more prolonged? What length would the outage have to be to result in more serious effects on customers?	Other than local impacts on individual customers and gas wells, PG&E's gas services have not been directly impacted by past levee damages. PG&E's response would typically be to close valves and isolated such affected areas. Generally, when customers in a flooded location are impacted, resuming gas services is not a critical need.



Item		
No. 4	Information Request/Question Trends: Do you have any plans to increase or decrease the capacity of your assets in the Delta? What is the expected time frame?	Information Provided/Response Gas well depletion in the Delta areas have resulted in a reduction of PG&E's gas gathering facilities. Other than the construction of Line 57C, there are no immediate plans to change PG&E's gas infrastructure in the Delta. With minor exceptions, the pipelines are in easements and PG&E retains existing rights to be in its locations. If an outside-entity requires relocation, the cost will generally be paid by such entity.
5	Vulnerability Assessments: Have you performed any assessments, such as asset and business vulnerability assessment associated with events in the Delta (island flooding, seismic, wind events, etc.)? If so, can these studies be made available?	On an annual basis, we perform a risk assessment of all pipelines in high consequence areas and we use this assessment to prioritize our inspections of pipelines in those areas as required by the System Integrity Rule (CFR 49 part 192, subpart O). The only consequence we consider for this assessment is the impact on the population living around the pipe section being assessed. Additionally on an annual basis, we perform a risk analysis of all our transmission pipelines (not just those in HCA's) that additionally takes into account impacts on the environment and system reliability. The first risk assessment is part of our System Integrity Program as mandated by the OPS (Office of Pipeline Safety and the CPUC. To identify affected pipe segments we use method II as allowed by subpart O and our Risk Management Procedure RMP-08 to identify, locate and document High Consequence Areas (HCA's) along transmission pipelines. Aerial photography and parcel information, along with care facility information provided by the state is used for this review. Those lines within HCA's are then scheduled for integrity assessments on a regular and prescribed schedule. Through an annual review process we identify changes in the extent of pipelines that exist within HCA's and adjust our assessment schedule accordingly. Our non-mandatory risk assessment program looks at all our transmission pipelines (including non-HCA's) and considers impacts on system reliability and the environment as well as affects on the population in arriving at a relative risk ranking of each pipeline segment. We use that ranking to help prioritize remediation work along the pipeline in order to lower overall system risk.

Item No.	Information Request/Question	Information Provided/Response
-		
6	Other Considerations: Is there any other	PG&E responds to all "one-call" USA digging notifications to identify any potential conflicts with
	information about your assets in the Delta	construction activities in specific areas of interest.
	that you think we should consider for our	As discussed above, PG&E's design, construction, operation and maintenance is under CPUC and
	analysis?	DOT jurisdiction, and meets or exceeds the minimum Federal Pipeline Safety Standards as specified
		in Sections 191 and 192 in Title 49 of the Code of Federal Regulations.
		PG&E operates an extensive computer-based system to monitor operations on its transmission
		system. Any system or localized disruptions are immediately investigated and an Emergency
		Incident Response Plan would be initiated with State Emergency agencies as appropriate.
		For security purposes, large-scale facility information is not generally disseminated externally.

PG&E - 10/20/06

DRMS PROJECT - DELTA ASSETS

PG&E Meeting Notes December 8, 2006, 8:00 – 8:45

Meeting Participants

Wayman Pon, Gas Generation, PG&E Mike Forrest, URS

Discussion

We have reviewed PG&E's information/responses to our information request, and have a few questions as noted below.

1. We would like to confirm the cost of, and times required for, repairs from the information provided by PG&E. We have summarized this information in the attached table. We note that emergency repairs (e.g., anchoring against flotation) have amounted to about \$1800/foot, while non-emergency repairs are considerably less, about \$300/foot. Are we interpreting this information correctly? If available, pipe diameters in the attached table would be useful for unit cost estimation.

Gas pipelines have not been ruptured, but have floated. The repair costs have been relatively low. Wayman will provide the pipe diameters in the attached table. And will check on the reason for work on Line 108.

2. Can a breached pipeline be repaired prior to pump out of an island (i.e., can the pipe be repaired under water)? Has such a repair been made? If a repair can be done under water, how long would a repair of a breach take?

Yes, a breached pipeline can be repaired prior to island pump out, but this would be very expensive. In the event of a failed pipeline, PG&E would isolate the failed segment by using automated valves. Customers on either side of the failed pipeline segment would be supported by other gas pipelines in the system.

3. What is the vulnerability of the gas pipelines to flooding of an island?

If there were just inundation, with no scour, the pipelines would generally not be vulnerable to damage. This is because the pipelines are typically buried 5 feet deep; this burial depth would preclude flotation. A pipeline in an inundated island would be monitored.

McDonald Island was flooded in the summer 1982 due to levee failure. The equipment is on platforms 30' above ground. There was no adverse impact on the equipment.

4. What is the vulnerability of the gas pipelines to scour erosion? Scour holes are estimated to be 50 feet deep at island perimeters.

Pipelines are vulnerable to damage from scour. Scouring would remove the soil cover, and the pipeline would float. There has not been a ruptured pipeline as a result of island scour, because



the steel pipelines are flexible. PG&E would reduce the operating pressure in a pipeline that floats, and would repair it by anchoring. [Note: If a pipeline were to be in the direct path of a scour hole that has a length of 2000', such an event could rupture a pipeline due to the high velocity and turbulent flow conditions.]

5. I would like to confirm PG&E gas pipeline locations and diameters on a GIS map that URS will provide.

DWR can get a password to obtain PG&E pipeline locations (Joel Dudas, DWR, is following up on this.) There are some differences between the GIS data that we have and PG&E's data.

The main pipelines to consider in the DRMS study are:

- Backbone (L400/401): 83 miles on west side of Delta, 26" to 42" OD
- Line 196: 12" to 16" OD, mostly 16" OD
- Line 108: 16" to 24" OD, mostly 24" OD
- StanPac (Standard Oil, now Chevron, and PG&E): 27 miles, 10" to 16" OD
- McDonald Island Storage: 33 miles, Lines 57A/B, 6" to 24" OD; Line 57C is under construction and will be on line in 2007. This new line will provide redundancy for gas delivery from the gas field.

Minor pipelines are:

- Local Transmission/DFM: 156 miles, 4" to 24" OD
- Gas Gathering (minor pipelines): 135 miles, 2" to 16" OD
- 6. We would also like to discuss with you what options are available if one or more pipelines are out of service for an extended period of time.

See discussion under No. 2 above. Customers would be served by other pipelines in the system. In essence, PG&E can serve customers by re-routing natural gas through other pipelines in the system, prior to repairs being made. There is no history of response to large system outages due to multiple pipeline failures.



PG&E
Gas Pipeline Repair Cost Summary Table
(Ref: Response Table from PG&E)

Pipeline	Event	Remedial Action/Project	Date	Duration (days)	Length (ft)	Diameter (in)	Repair Cost	Cost/Foot
Mildred Island, Line 57A	Flotation	Anchored pipe	10/1/95 – 11/1/95	30	120	18	\$200,000	\$1670
Line 57A	Flotation	Anchored pipe	6/7/02	?	40	18	\$75,000	\$1875
Red Bridge Slough, Line 108	Levee Break	Emergency restoration	2/14/97 – 3/7/97	20	?	16 to 24	\$53,000	
Line 108	Scour of levee; pipe flotation	Anchored pipe and subsequent replacement	5/21/97 – 6/20/97	30	1000	16 to 24	\$215,000	\$215
Staten Island, Line 196	Relocation Project					12 to 16		\$300

DELTA RISK MANAGEMENT STRATEGY

MEETING WITH MAJOR DELTA ASSET OWNERS

INFORMATION REQUEST TABLE – PG&E (Electric Transmission)

	~	E - I GCE (Electric Transmission)
Item No.	Information Request/Question	Information Provided/Response
1	Asset Definition/Description: Are "as-built" drawings available showing basic details and dimensions of the infrastructure?	Under the jurisdiction of FERC (Federal Energy Regulatory Commission) and CPUC (California Public Utilities Commission), PG&E maintains extensive drawings for its electric transmission facilities.
		PG&E and other regulated transmission owners submit lists of our electric transmission assets to FERC. The dissemination of this data is regulated by the government as described on the FERC web site: http://www.ferc.gov .
		PG&E designs and builds electric transmission lines based on its own standards. These standards meet or exceed the minimum requirements of the CPUC General Order No. 95 (G.O. 95) "Rules For Overhead Electric Line Construction".
		Total Electric Transmission Lines (Approximate) within the Legal Delta and Suisun Marsh areas – 820 Circuit Miles and 6350 structures include:
	assets).	500 kV 60 circuit miles 240 towers 230 Kv 220 circuit miles 560 towers 115 kV 310 circuit miles 2050 towers/poles 60 kV 230 circuit miles 3500 towers/poles
	b. Information along island perimeters, such as slough cross-sections at pipeline/ bridge crossings.	As stated above, PG&E designs and builds electric transmission lines based on its own standards which meet or exceed the minimum requirements of G.O. 95. This standard covers building transmission lines across bridges and water surfaces.
	c. Information on any flood protection (such as the height of berms around asset, reinforcement of structures). Information on any seismic retrofit; if retrofitted, what was the seismic design criteria?	PG&E designs and builds electric transmission lines to withstand effects of wind, temperature, and ice when applicable. The effect of the temperature and loading conditions are more stringent than the effect of the earthquake on the structures and foundations.
	d. Type of foundation (e.g., spread footings, piles – range of depths, etc.).	The transmission lines at 500 kV, 230 kV, and 115 kV voltage levels within the Legal Delta and Suisun Marsh areas are constructed on tower structures. Most of the towers have augered footings with a minimum diameter of 2 feet and at various depths. Only about 10 percent of the towers are on pile foundations.

Item No.	Information Request/Question	Information Provided/Response
1	1	The 500 kV transmission lines are constructed on single circuit tower structures. The depths of the footings range from 9 feet to 15 feet.
cont'd.		Majority of the 230 kV transmission lines are constructed on double-circuit tower structures. The depths of the footings range from 9 feet to 20 feet.
		Majority of the 115 kV transmission lines are constructed on double-circuit tower structures. The depths of the footings range from 7.5 feet to 12.5 feet. Some of the 115 kV lines are constructed on wood poles. Based on the wood pole standards, the typical depths of the pole settings range from 5 feet to 10 feet.
		Almost all the 60 kV transmission lines are constructed on wood poles. The classes and settings of wood poles are designed to meet or exceed the minimum requirements of G.O. 95. The pole setting depths of wood poles varies from 5 feet to 10 feet depending on the height of the wood poles. Some of the 60 kV transmission lines are constructed on tubular steel poles. The typical foundation size for tubular steel poles at this voltage level is about 4.5 feet in diameter and 17 feet deep.
	e. Installation descriptions, such as above or below ground; pipe cover depths in sloughs and across islands.	Almost all transmission line structures are constructed above ground. In this area, only a very small portion of the transmission lines are constructed below ground.
2	Historical Data:	No history of flooding events that resulted in damage or failure of infrastructure.
	a. Repair Costs: Do you have historical information on events that resulted in damage or failure of infrastructure? If so, what was the date of each event, the extent of the damage/failure, associated costs for repairs, time to complete repairs and the total outage time.	Not applicable.
	b. <u>Time for Repairs</u> : What is the expected outage time to make repairs of a failure/damage caused by a levee breach? Would you need to wait for the island to be drained before repairing the infrastructure? If yes, what would you do if flooding was extensive and prolonged? If not, what would be the impact of continued flooding on your repair costs?	Not applicable.

Item No.	Information Request/Question	Information Provided/Response
2 cont'd.	c. <u>Effect on Operations</u> : How did the outage affect your operations? Please provide an estimate of revenue loss and/or increase in operating costs (other than repair costs) for the above outage time.	Not applicable.
3	Effect on Customers: What effect did outages have on customers? (e.g., reduced product deliveries, higher prices) How would customers be affected if the outage was more prolonged? What length would the outage have to be to result in more serious effects on customers?	Transmission line outages affect customers depending on the duration and frequencies of the outages. The impact of the outages depends on the customer class, i.e., residential, commercial, industrial, or agricultural, and how the affected customers manage the outage. The outages may inconvenience the customers and cause economic loss.
4	Trends: Do you have any plans to increase or decrease the capacity of your assets in the Delta? What is the expected time frame?	In accordance with the California Independent System Operator (CAISO) tariff, PG&E is required to submit annually an electric transmission facility expansion plan to the CAISO. This expansion plan is required to identify transmission upgrades that are needed to ensure PG&E's transmission facilities performance continue to meet all applicable planning criteria. PG&E submitted PG&E's 2005 Electric Transmission Grid Expansion Plan to the CAISO which documented PG&E's plan for the next ten years (2006 to 2015). The report identified projects in the Delta area to be completed in 2007 to 2010 timeframe. Additional projects may be identified in the 2006 report and the succeeding reports.
5	Vulnerability Assessments: Have you performed any assessments, such as asset and business vulnerability assessment associated with events in the Delta (island flooding, seismic, wind events, etc.)? If so, can these studies be made available?	No.
6	Other Considerations: Is there any other information about your assets in the Delta that you think we should consider for our analysis?	If flooding occurs in the Delta area and the flooded area becomes navigable, then PG&E may have to raise the existing structures to conform with clearance requirements of G.O. 95.

PG&E - 11/13/06

DELTA RISK MANAGEMENT STRATEGY MEETING WITH MAJOR DELTA ASSET OWNERS INFORMATION REQUEST TABLE – CCWD

Item					
No.	Information Request/Question			nation Provided/l	
1	Asset Definition/Description: Are "as-built" drawings available showing basic details and dimensions of the infrastructure?				
		As-Built drawings are av	vailable for review	w at CCWD's adn	ninistrative offices.
	k. Confirmation of the location, number, and physical description (e.g., diameters of	a. Description of CCWD	Delta Facilities		
	pipelines, number of towers, length of	Facility	Northing	Easting	Pump Capacity
	other assets).				
		Old River Pump Station	2,147,371.70	6,250,969.02	Pump 1 (2100HP, 26030 GPM) Pump 2 (2100HP, 26030 GPM) Pump 3 (2100HP, 26030 GPM) Pump 4 (2100HP, 26030 GPM) Pump 5 (2100HP, 26030 GPM)
		Mallard Slough Pump Station	2,202,682.02	6,150,409.75	Pump 1 (800HP, 17400 GPM) Pump 2 (800HP, 17400 GPM)
		Rock Slough Intake ¹	2,179,838.38	6,232,760.72	NA – Begins unlined Contra Costa Canal
		Pumping Plant No. 1	2,187,199.31	6,215,372.07	Pump 1 (125HP, 13912 GPM)
		Pumping Plant No. 2	2,184,378.498	6,212,894.227	Pump 2 (400HP, 47124 GPM) Pump 3 (400HP, 41738 GPM)
		Pumping Plant No. 3	2,182,915.317	6,207,526.494	Pump 4 (250HP, 27825 GPM)
		Pumping Plant No. 4	2,182,634.885	6,201,481.722	Pump 5 (250HP, 27825 GPM) Pump 6 (125HP, 13912 GPM)
			length and cons		Costa Canal. The intake channel is a channel segments and four concrete

Item		
No.	Information Request/Question	Information Provided/Response
	1. Information along island perimeters, such	b. Cross sections of the unlined canal are available for review at the District's administrative offices
	as slough cross-sections at pipeline/	
1	bridge crossings.	
1	m. Information on any flood protection (such	c. Old River – The Old River Pump Station is situated within a setback levee constructed as part of the
cont'd.	as the height of berms around asset, reinforcement of structures). Information	project in 1997. The elevation of the setback levee is approximately +11.5 feet Rock Slough Intake – The first four miles of the Contra Costa Canal are unlined and situated between
	on any seismic retrofit; if retrofitted, what	non-engineered levees/berms. The levees have a minimum elevation of +10.5 feet. The existing
	was the seismic design criteria?	levees/berms are not suitable for flood protection.
	was the seisine design effectia.	Mallard Slough Pump Station – The Mallard Slough Pump Station was rehabilitated as part of the
		District's Seismic Reliability Improvements Program. Seismic criteria utilized included an Importance
		Factor of 1.5, Risk Zone 4, Rv 2, Ca 0.6, and Cv 1.15.
	n. Type of foundation (e.g., spread footings,	d. Old River – Foundation consists of 24" concrete piles with depths of approximately 50 feet
	piles – range of depths, etc.).	Mallard Slough Pump Station – Foundation consists of 24" concrete piles with depths of
		approximately 65 feet
	o. Installation descriptions, such as above or	e. As-Built drawings are available for review at CCWD's administrative offices.
	below ground; pipe cover depths in	
2	sloughs and across islands. Historical Data:	
2		a. 1998 Emergency Repairs to Unlined Canal – A portion of the unlined canal was reinforced with
	g. Repair Costs: Do you have historical information on events that resulted in	riprap at a cost of about \$100,000.
	damage or failure of infrastructure? If so,	inplay at a cost of about \$100,000.
	what was the date of each event, the	
	extent of the damage/failure, associated	
	costs for repairs, time to complete repairs	
	and the total outage time?	
	h. <u>Time for Repairs</u> : What is the expected	b. Failure of the levees/berms along the unlined canal has the potential to cause flooding on portions of
	outage time to make repairs of a	Hotchkiss Tract and areas south of the Canal. The potential for flooding in these areas will be
	failure/damage caused by a levee breach?	eliminated with the implementation of the Canal Replacement Project.
	Would you need to wait for the island to	If flooding along he unlined canal was extensive, the District would transfer pumping to its Old River
	be drained before repairing the	Intake located near Highway 4, and would supplement pumping as needed with releases from the Los
	infrastructure? If yes, what would you do	Vaqueros Reservoir.
	if flooding was extensive and prolonged?	If Byron Tract flooded, the pumping plant is located in a setback levee and would be accessible by
	If not, what would be the impact of continued flooding on your repair costs?	boat. When drained, the pipeline would be repairable and useable. Supply from Los Vaqueros would be available and unaffected by levee failure.
	continued frooding on your repair costs?	Supply from Los vaqueros would be available and unaffected by level failule.



Item		
No.	Information Request/Question	Information Provided/Response
2 cont'd.	i. <u>Effect on Operations</u> : How did the outage affect your operations? Please provide an estimate of revenue loss and/or increase in operating costs (other than repair costs) for the above outage time.	c. Andrus Island Levee Failure – Caused chloride concentrations in excess of 440 mg/l at the District's Rock Slough Intake. Approximately one-third of CCWD's demands are from major industrial customers, including two oil refineries, steel and chemical manufacturing facilities. Increase salinity increases operating costs for the District and its customers and can cause damage to industrial equipment.
	for the above outage time.	Jones Tract Levee Failure - CCWD switched its source of Delta supply from the Old River Intake to Rock Slough
3	Effect on Customers: What effect did outages have on customers? (e.g., reduced product deliveries, higher prices) How would customers be affected if the outage was more prolonged? What length would the outage have to be to result in more serious effects on customers?	See above response.

Item		
No.	Information Request/Question	Information Provided/Response
4	Trends: Do you have any plans to increase or decrease the capacity of your assets in the Delta? What is the expected time frame?	Non-Capacity Related Improvements in the Delta 1. Canal Replacement Project – This project includes replacing the unlined Contra Costa Canal with a 10 foot diameter buried pipeline. The purpose of the project is to protect the District's drinking water supply from existing and future water quality degradation, improve flood protection, and enhance public safety and security. Construction of Phase 1 of the project is expected to commence in 2008 2. Alternative Intake Project – This project is a water quality project that will improve CCWD's drinking water quality by constructing a new intake in the Delta. It will consist of constructing and operating a new, screened water intake (with a maximum capacity of 250 cfs and pump station located along the lower third of Victoria Canal on Victoria Island in the central Delta. A buried pipeline will be constructed from the new intake across Victoria Island and Old River and tie into CCWD's existing Old River conveyance system on Byron Tract. Construction is expected to begin in 2009. 3. Los Vaqueros Expansion - Expansion of Los Vaqueros Reservoir from 100,000 acre-feet up to 500,000 acre-feet is currently being evaluated as part of the ongoing State and Federal effort to improve Bay Area drought supply and water quality and to contribute to protection and restoration of Delta fisheries by providing water to the Environmental Water Account (EWA). The Expansion Project would include expansion of CCWD's Delta intakes, pump stations, and conveyance facilities and enlargement of the existing Los Vaqueros Dam. The Draft EIS/EIR and Federal Feasibility Report are scheduled to be completed in fall 2007 and finalized in summer 2008. Congressional authorization will be required for the project to proceed into design and construction. The earliest possible date for completion of construction is 2016.
5	Vulnerability Assessments: Have you performed any assessments, such as asset and business vulnerability assessment associated with events in the Delta (island flooding, seismic, wind events, etc.)? If so, can these studies be made available?	Los Vaqueros – One of the primary purposes of the 100,000 acre-foot Los Vaqueros Reservoir was to provide emergency storage for the District's customers in the event of a catastrophic event in the Delta. The reservoir provides a minimum of 3 months of emergency storage. Seismic Reliability Improvement Project (SRIP) - CCWD completed a study of the seismic reliability and capacity of its water distribution facilities in 1997. As a result of the study, CCWD has completed three major capital projects that improve the capacity and reliability of the raw water system to meet future demands, as well as to meet fire flow needs following a major earthquake. These projects are: Raw Water Seismic Improvement Project, which reinforced seven areas of seismic vulnerability along the Contra Costa Canal; the Mallard Slough Pump Station project, which replaced the existing 65 year old Mallard Slough intake at Bay Point; and the Multi-Purpose Pipeline (MPP), which is a 22-mile long pipeline to supplement the capacity of the Contra Costa Canal. The MPP provides a highly secure water supply. The Contra Costa Canal and Mallard Slough Pump Station are available for fire flow at any time. The SRIP study is available for review at the District's administrative offices.

Item	Information Demonstration	Lufanna dan Daraida I/Dana
No.	Information Request/Question	Information Provided/Response
6	Other Considerations: Is there any other information about your assets in the Delta that you think we should consider for our analysis?	CCWD relies entirely on the Delta to supply water to its 500,000 customers throughout northern, central and eastern Contra Costa County. Therefore, any change in the Delta that substantially degrades water quality will severely impact CCWD's ability to provide safe, reliable drinking water to its customers. Currently, CCWD's primary means of ensuring that federal disinfection by-product standards are met in treated water are to ensure that bromide and TOC levels in the source water from the Delta are maintained below certain thresholds. Pathogens, nutrients, and other constituents also contribute to the challenges of meeting regulations for treated water using Delta water as the source. CCWD adjusts operations daily to meet water quality goals in water delivered by CCWD to its customers. In order to deliver consistently good quality water throughout the year, CCWD diverts low salinity water from the Old River Intake in the spring for storage in Los Vaqueros Reservoir, and then releases water from the Reservoir to blend with Delta diversions when salinity is higher in the fall. CCWD's customers approved the \$450 million Los Vaqueros Project in 1988, in order to improve the quality of water supplied to CCWD customers, to minimize seasonal quality changes, and to improve the reliability of the emergency water supply available to CCWD. (CCWD now has a minimum of three months' emergency water supply at all times.) Abandoning the Delta as a water conveyance system following a catastrophic failure of the Delta levees would leave CCWD and its customers with
		no source of drinking water and hundreds of millions of dollars of stranded assets.

We appreciate your effort to obtain the requested information. We would appreciate any information that you can provide by October 23, 2006. Please contact me if you have any questions. Thank you:

Michael Forrest, Senior Project Manager URS Corporation, 1333 Broadway, Suite 800, Oakland, CA 94612

Telephone: (510) 874-3012

Fax: (510) 874-3268

e-mail: michael_forrest@urscorp.com

Appendix C
Description of Information in Asset Tables

C.1 Description of Information in Inundation Tables

The estimate of asset damage in Tables 7-1, 7-2, 7-4, and 7-5 lists the asset types present in each analysis zone, along with the quantity of each asset, depth of inundation to which the asset would be exposed, percentage of damage incurred by the various assets, value of the assets⁵, estimated repair costs resulting from inundation, and the time estimated for repairs. The total repair costs and total asset value are indicated at the top of the table in an orange box.

Some assets have been attributed a value by HAZUS, while others have not. For assets that have not been attributed a value by HAZUS, the value was estimated by using the quantity and the unit value. Below is a description of each column (in the Excel spreadsheets) in the tables:

- Column 1 **Island Name**: The name of the analysis zone (see Figures 3-2, 3-3, and 3-4 for maps of analysis zones).
- Column 2 **Asset Type**: The type of asset (e.g., highway, school, etc.).
- Column 3 **Inventory Unit**: This column indicates the unit that is used to measure the quantity of each asset.
- Column 4 GIS Quantity: This is the quantity of each asset.
- Column 5 **Avg Inundation Depth**: This is the average inundation depth for each asset.
- Column 6 **Percent Damage**: This column indicates the percentage of damage that is used to calculate the repair costs. FEMA considers a structure that incurs more than 50% damage to be completely damaged (i.e., 100% damage), so this column indicates the percentage of damage that is used by FEMA to calculate damage costs. It is assumed the Delta corresponds to a Coastal Zone A (as opposed to a Coastal Zone V or a Riverine zone), as defined by HAZUS. Thus, percentages of damage used for single-family residences and manufactured housing (HAZUS designations "RES1" and "RES2", respectively) correspond to percentage of damage for occupancies in a Coastal Zone A.
- Column 7 **Total Asset Value**: This column represents the value (structure replacement cost plus contents) of each asset.
- Column 8 **Inundation Repair Costs**: This column represents the repair cost for each asset, based on the depth of inundation, the percentage of damage incurred, and the original value of the asset (or based on other repair cost estimates).
- Column 9 **Per Island Inundation Repair Costs**: This column sums the repair costs per island.
- Column 10 **Per Island Asset Value**: This column sums the asset values per island.
- Column 11 **Repair Time**: This column indicates the repair time in months.

⁵ In the context of this TM, "asset value" means replacement cost.



C.2 <u>Description of Information in Scour Tables</u>

The estimates of asset damage in Tables 7-3 and 7-6 list the asset types present in each analysis zone, along with the quantity of each asset, percent damage to which the asset was exposed in the corresponding inundation event, value of the assets, estimated repair costs resulting from inundation, estimated additional repair costs for a scour event, and the estimated repair costs for scour in a 1,000-foot increment along the island perimeters.

Figure 4-2 indicates the areas around the island perimeters that would be potentially vulnerable to scour damage. Scour holes (2000 feet long x 500 feet wide) could occur anywhere within the island perimeters shown on Figure 4-2.

The content of each column is outlined below:

- Column 1 **Island Name**: The name of the analysis zone (see Figures 3-2, 3-3, and 3-4 for maps of analysis zones).
- Column 2 **Asset Type**: The type of asset (e.g., highway, school, etc.).
- Column 3 **Structure Type**: The type of asset (e.g., linear or point).
- Column 4 **Inventory Unit**: This column indicates the unit that is used to measure the quantity of each asset.
- Column 5 **GIS Quantity**: This is the quantity of each asset.
- Column 6 **Percent Damage**: This is the percent damage incurred by the asset in either the MHHW or the 100-year flood.
- Column 7 **Total Asset Value**: This column represents the value (replacement cost) of each asset.
- Column 8 Inundation Repair Costs (MHHW or 100-year Flood): This column indicates the repair costs incurred in either the MHHW or 100-year inundation scenario.
- Column 9 **Differential Repair Costs**: This is the additional repair cost incurred in a scour scenario. To avoid double counting the damage costs of assets within the 2000ft scour zone, the Scour spreadsheets estimate the differential. Differential cost = [asset value (replacement cost) in 2000-ft scour zones] minus [cost damage due to inundation in the 2000-ft scour zones, for the MHHW event and for the 100-year flood].
- Column 10 **Inundation Repair Costs By Island (MHHW or 100-year flood)**: This is the sum of the inundation repair costs by island.
- Column 11 Differential Costs for Point Assets By Island: This is the sum of repair costs incurred in the event of scour. This column sums the repair costs for each island and includes point assets only.
- Column 12 1,000 ft Increment Cost for Point Assets By Island: This is the estimate of the replacement costs due to scour (i.e., the differential cost) for each



1,000 ft increment along the perimeter of the scour zone. This is value is estimated by prorating the differential cost of the entire island as follows: [(1,000 ft) / (perimeter of scour zone)]* [differential cost for entire scour zone of the island] = estimated replacement cost for each 1,000 ft increment.

Column 13 – Differential Repair Costs for Linear Assets – By Island: This is the sum of repair costs incurred in the event of scour. This column sums the repair costs by island for linear assets only.

